

BLAST Basic Local Alignment Search Tool

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Nucleotide Sequence (9599 letters)

Results for:

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

Query ID

lcl|43657

Description

None

Molecule type

nucleic acid

Query Length

9599

Database Name

pat

Description

Nucleotide sequences derived from the Patent division of GenBank

Program

BLASTN 2.2.21+ [Citation](#)

Reference

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000), "A greedy algorithm for aligning DNA sequences", J Comput Biol 2000; 7(1-2):203-14.

Other reports: [Search Summary](#) [Taxonomy reports](#) [Distance tree of results](#)

Search Parameters

Program	blastn
Query range	0-9598
Word size	28
Expect value	10
Hitlist size	100
Match/Mismatch scores	1,-2
Gapcosts	0,0
Low Complexity Filter	Yes
Filter string	L;m;
Genetic Code	1

Database

Posted date	Sep 6, 2009 4:41 AM
Number of letters	5,649,747,954
Number of sequences	10,944,200
Entrez query	none

Karlin-Altschul statistics

Params	Ungapped	Gapped
Lambda	1.33271	1.28
K	0.620991	0.46
H	1.12409	0.85

Results Statistics

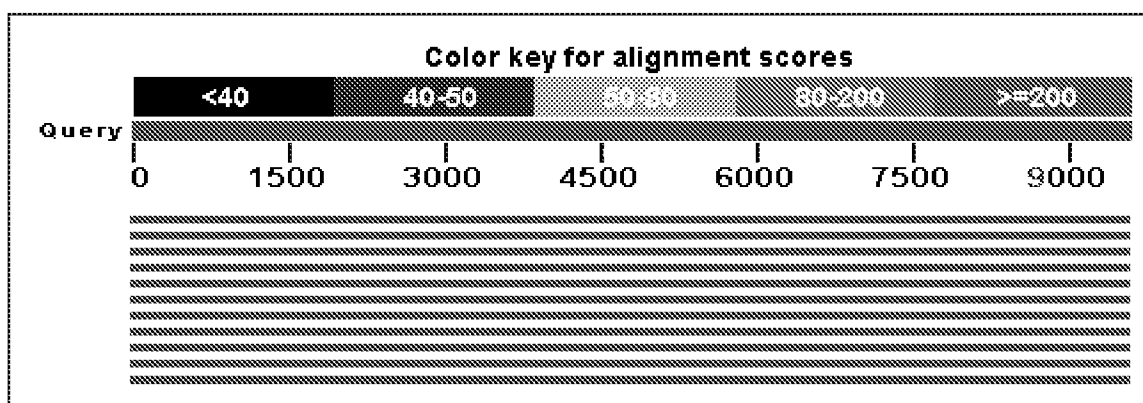
Length adjustment	34
Effective length of query	9565
Effective length of database	5277645154
Effective search space	50480675898010
Effective search space used	50480675898010

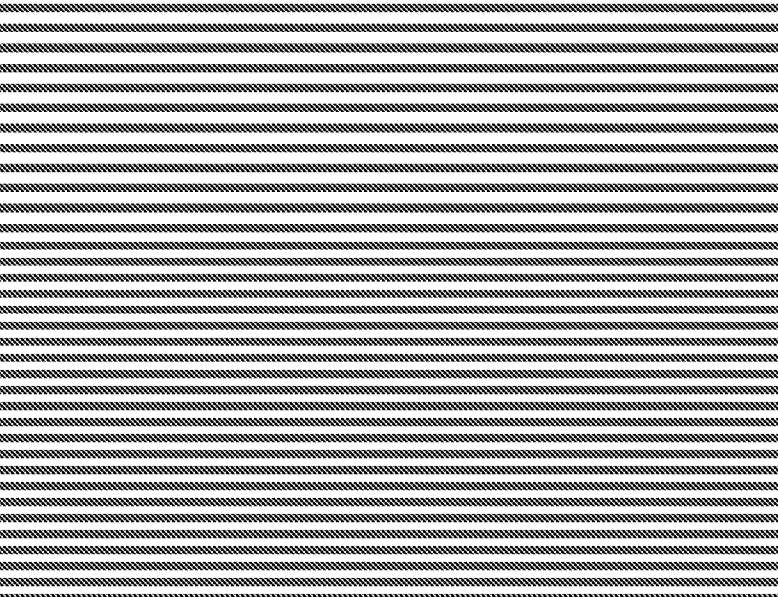
Graphic Summary

Distribution of 130 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence takes the user to the associated alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-coded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment detail.





Descriptions

Legend for links to other resources:  UniGene  GEO  Gene  Structure  Map Viewer

Sequences producing significant alignments:

(Click headers to sort columns)

GN088766.1	Sequence 1 from Patent WO2009030872	1.773e+04	1.773e+04	100%	0.0	100%
GP053754.1	Sequence 13 from patent US 7473772	1.773e+04	1.773e+04	100%	0.0	100%
GM741321.1	Sequence 55 from Patent WO2008004992	1.773e+04	1.773e+04	100%	0.0	100%
FB361094.1	Sequence 13 from Patent WO2006110762	1.773e+04	1.773e+04	100%	0.0	100%
EA500399.1	Sequence 1 from patent US 7361503	1.773e+04	1.773e+04	100%	0.0	100%
DJ068451.1	NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS	1.773e+04	1.773e+04	100%	0.0	100%
EA268426.1	Sequence 13 from patent US 7244585	1.773e+04	1.773e+04	100%	0.0	100%
EA110745.1	Sequence 2 from patent US 7201911	1.773e+04	1.773e+04	100%	0.0	100%
EA029856.1	Sequence 13 from patent US 7141405	1.773e+04	1.773e+04	100%	0.0	100%
EA019704.1	Sequence 6 from patent US 7129342	1.773e+04	1.773e+04	100%	0.0	100%
AR916157.1	Sequence 67 from patent US 7084266	1.773e+04	1.773e+04	100%	0.0	100%
AR119831.1	Sequence 2 from patent US 6153421	1.773e+04	1.773e+04	100%	0.0	100%
DL479449.1	YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION	1.761e+04	1.761e+04	100%	0.0	99%
GC661264.1	Sequence 19 from patent US 7439042	1.761e+04	1.761e+04	100%	0.0	99%
DI166564.1	YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION	1.761e+04	1.761e+04	100%	0.0	99%
EA356451.1	Sequence 17 from patent US 7288369	1.737e+04	1.774e+04	100%	0.0	100%
AR700053.1	Sequence 17 from patent US 6921634	1.737e+04	1.774e+04	100%	0.0	100%
GP244623.1	Sequence 1 from patent US 7504255	1.732e+04	1.761e+04	100%	0.0	99%
DL487744.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.732e+04	1.761e+04	100%	0.0	99%
FB361093.1	Sequence 12 from Patent WO2006110762	1.732e+04	1.761e+04	100%	0.0	99%
EA263001.1	Sequence 1 from patent US 7235394	1.732e+04	1.761e+04	100%	0.0	99%
CS541301.1	Sequence 49 from Patent WO2007013882	1.732e+04	1.761e+04	100%	0.0	99%
BD069982.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.732e+04	1.761e+04	100%	0.0	99%
AR110828.1	Sequence 1 from patent US 6127116	1.732e+04	1.761e+04	100%	0.0	99%
DL487747.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.732e+04	1.760e+04	100%	0.0	99%
EA263004.1	Sequence 5 from patent US 7235394	1.732e+04	1.760e+04	100%	0.0	99%
BD069985.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.732e+04	1.760e+04	100%	0.0	99%
AR110831.1	Sequence 5 from patent US 6127116	1.732e+04	1.760e+04	100%	0.0	99%
GN088768.1	Sequence 3 from Patent WO2009030872	1.731e+04	1.731e+04	100%	0.0	99%
EA372966.1	Sequence 2 from patent US 7314710	1.713e+04	1.713e+04	100%	0.0	98%
DD070077.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.713e+04	1.713e+04	100%	0.0	98%
AX663428.1	Sequence 2 from Patent WO02088338	1.713e+04	1.713e+04	100%	0.0	98%
DL487761.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.688e+04	1.688e+04	97%	0.0	99%
EA263018.1	Sequence 19 from patent US 7235394	1.688e+04	1.688e+04	97%	0.0	99%

BD069999.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.688e+04	1.688e+04	97%	0.0	99%
AR110845.1	Sequence 19 from patent US 6127116	1.688e+04	1.688e+04	97%	0.0	99%
GM680540.1	Sequence 13 from Patent EP1947185	1.688e+04	1.688e+04	98%	0.0	99%
DI128636.1	VACCINES CONTAINING RIBAVIRIN AND METHODS OF USE THEREOF	1.688e+04	1.688e+04	98%	0.0	99%
EA281575.1	Sequence 13 from patent US 7261883	1.688e+04	1.688e+04	98%	0.0	99%
EA269460.1	Sequence 13 from patent US 7244715	1.688e+04	1.688e+04	98%	0.0	99%
EA267242.1	Sequence 13 from patent US 7244422	1.688e+04	1.688e+04	98%	0.0	99%
EA264407.1	Sequence 13 from patent US 7241440	1.688e+04	1.688e+04	98%	0.0	99%
BD442677.1	VACCINES CONTAINING RIBAVIRIN AND METHODS OF USE THEREOF	1.688e+04	1.688e+04	98%	0.0	99%
AR640519.1	Sequence 13 from patent US 6858590	1.688e+04	1.688e+04	98%	0.0	99%
AR453138.1	Sequence 13 from patent US 6680059	1.688e+04	1.688e+04	98%	0.0	99%
AX441173.1	Sequence 13 from Patent WO0213855	1.688e+04	1.688e+04	98%	0.0	99%
AR030378.1	Sequence 1 from patent US 5861267	1.687e+04	1.687e+04	97%	0.0	99%
AR607374.1	Sequence 7 from patent US 6821955	1.665e+04	1.665e+04	97%	0.0	98%
DI026879.1	A detecting method of hepatitis C virus using recombinant mixed antigens derived from HCV and a diagnostic kit thereof	1.541e+04	1.541e+04	100%	0.0	95%
DI040069.1	NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS	1.520e+04	1.520e+04	97%	0.0	95%
BD295096.1	NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS	1.520e+04	1.520e+04	97%	0.0	95%
BD080334.1	Hepatitis C virus asialoglycoprotein	1.520e+04	1.520e+04	97%	0.0	95%
AR176483.1	Sequence 9 from patent US 6312889	1.520e+04	1.520e+04	97%	0.0	95%
E66593.1	Hepatitis C virus asialoglycoprotein	1.520e+04	1.520e+04	97%	0.0	95%
I81885.1	Sequence 9 from patent US 5712087	1.520e+04	1.520e+04	97%	0.0	95%
I71894.1	Sequence 9 from patent US 5683864	1.520e+04	1.520e+04	97%	0.0	95%
DM170404.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+04	1.516e+04	97%	0.0	95%
DL212380.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+04	1.516e+04	97%	0.0	95%
DJ491512.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+04	1.516e+04	97%	0.0	95%
DJ047428.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+04	1.516e+04	97%	0.0	95%
DD495902.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+04	1.516e+04	97%	0.0	95%
AR301300.1	Sequence 1 from patent US 6538123	1.516e+04	1.516e+04	97%	0.0	95%
AR166930.1	Sequence 1 from patent US 6284249	1.516e+04	1.516e+04	97%	0.0	95%
DI039725.1	COMBINATIONS OF HEPATITIS C VIRUS (HCV) ANTIGENS FOR USE IN IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES	1.514e+04	1.514e+04	97%	0.0	95%
AR118747.1	Sequence 176 from patent US 6150087	1.513e+04	1.513e+04	97%	0.0	95%
E08264.1	cDNA of Hepatitis C virus, HC-J1	1.487e+04	1.487e+04	98%	0.0	94%
E08263.1	gRNA of Hepatitis C virus, HC-J1	1.486e+04	1.486e+04	98%	0.0	94%
AX100563.1	Sequence 1 from Patent WO0121807	1.483e+04	1.758e+04	99%	0.0	100%
BD426989.1	METHODS FOR CULTURING HCV IN EUKARYOTIC CELLS	1.482e+04	1.482e+04	95%	0.0	95%
BD091382.1	HCV cultivation method in eucaryotic cells	1.482e+04	1.482e+04	95%	0.0	95%
I08294.1	Sequence 1 from Patent EP 0388232	1.482e+04	1.482e+04	95%	0.0	95%
AR118723.1	Sequence 123 from patent US 6150087	1.481e+04	1.481e+04	95%	0.0	95%

AR118722.1	Sequence 122 from patent US 6150087	1.481e+04	1.481e+04	95%	0.0	95%
EA110747.1	Sequence 6 from patent US 7201911	1.477e+04	1.477e+04	100%	0.0	94%
AR119833.1	Sequence 6 from patent US 6153421	1.477e+04	1.477e+04	100%	0.0	94%
AR118728.1	Sequence 137 from patent US 6150087	1.443e+04	1.443e+04	93%	0.0	95%
AR118703.1	Sequence 88 from patent US 6150087	1.326e+04	1.326e+04	86%	0.0	95%
AR916116.1	Sequence 9 from patent US 7084266	1.310e+04	1.422e+04	90%	0.0	96%
AR916114.1	Sequence 5 from patent US 7084266	1.310e+04	1.417e+04	90%	0.0	96%
AX057094.1	Sequence 9 from Patent WO0075338	1.310e+04	1.422e+04	90%	0.0	96%
AX057090.1	Sequence 5 from Patent WO0075338	1.310e+04	1.417e+04	90%	0.0	96%
AR916115.1	Sequence 7 from patent US 7084266	1.263e+04	1.375e+04	80%	0.0	99%
AR916113.1	Sequence 3 from patent US 7084266	1.263e+04	1.375e+04	80%	0.0	99%
AX057092.1	Sequence 7 from Patent WO0075338	1.263e+04	1.375e+04	80%	0.0	99%
AX057088.1	Sequence 3 from Patent WO0075338	1.263e+04	1.375e+04	80%	0.0	99%
EA372967.1	Sequence 3 from patent US 7314710	1.208e+04	1.314e+04	77%	0.0	99%
DD070078.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.208e+04	1.314e+04	77%	0.0	99%
AX663429.1	Sequence 3 from Patent WO02088338	1.208e+04	1.314e+04	77%	0.0	99%
EA372965.1	Sequence 1 from patent US 7314710	1.188e+04	1.188e+04	68%	0.0	99%
DD070076.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.188e+04	1.188e+04	68%	0.0	99%
AX663427.1	Sequence 1 from Patent WO02088338	1.188e+04	1.188e+04	68%	0.0	99%
DI052976.1	Hepatitis C virus epitope	1.170e+04	1.170e+04	76%	0.0	95%
I09331.1	Sequence 15 from Patent WO 8904669	1.170e+04	1.170e+04	76%	0.0	95%
AR118696.1	Sequence 74 from patent US 6150087	1.169e+04	1.169e+04	76%	0.0	95%
DJ065327.1	HCV Replicon Shuttle Vectors	1.108e+04	1.168e+04	67%	0.0	99%
CS619793.1	Sequence 2 from Patent EP1801116	1.108e+04	1.168e+04	67%	0.0	99%
GM975264.1	Sequence 19 from Patent WO2008148671	1.106e+04	1.165e+04	67%	0.0	98%
DJ065332.1	HCV Replicon Shuttle Vectors	1.104e+04	1.164e+04	67%	0.0	98%
CS619798.1	Sequence 7 from Patent EP1801116	1.104e+04	1.164e+04	67%	0.0	98%
GM975250.1	Sequence 5 from Patent WO2008148671	1.101e+04	1.161e+04	67%	0.0	98%

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>**emb|GN088766.1|** Sequence 1 from Patent WO2009030872
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720

Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860

Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTT?????TCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	???????CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000

Query	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGTCAATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGTCAATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTTCATTCCTGCGCCGCGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTTCATTCCTGCGCCGCGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140

Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTT CAGAATGAAGTACCCTGACGCACCCAATCACC AAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTT CAGAATGAAGTACCCTGACGCACCCAATCACC AAATACATCATGA	5280

Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420

Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG 	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG 	6480
Query	6481	TCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCA 	6540
Sbjct	6481	TCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCA 	6540
Query	6541	CGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGCTCTG 	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGCTCTG 	6600
Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA 	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA 	6660
Query	6661	CTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACG 	6720
Sbjct	6661	CTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACG 	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT 	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT 	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG 	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG 	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG 	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG 	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT 	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT 	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA 	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA 	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACAGGGTTGAGTCAG 	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACAGGGTTGAGTCAG 	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG 	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG 	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG 	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG 	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACG 	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACG 	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC 	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC 	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 	7380
Query	7381	TTGCCACCAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 	7440
Sbjct	7381	TTGCCACCAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTG???????GACTCCGACGTTGAGTCCTATTCTT 	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTT 	7500
Query	7501	CCATG???????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA 	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA 	7560

Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACGCGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACGCGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccgggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700

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Query 8701 CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760
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Sbjct 8701 CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760

Query 8761 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820
      |||
Sbjct 8761 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820

Query 8821 CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
      |||
Sbjct 8821 CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880

Query 8881 CCCATTTCTTTAGCGTCTCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA 8940
      |||
Sbjct 8881 CCCATTTCTTTAGCGTCTCTATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA 8940

Query 8941 TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC 9000
      |||
Sbjct 8941 TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC 9000

Query 9001 ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
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Sbjct 9001 ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060

Query 9061 CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG 9120
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Sbjct 9061 CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG 9120

Query 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
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Sbjct 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180

Query 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
      |||
Sbjct 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240

Query 9241 TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG 9300
      |||
Sbjct 9241 TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG 9300

Query 9301 CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360
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Sbjct 9301 CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360

Query 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT 9420
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Sbjct 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT 9420

Query 9421 *****AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9480
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Sbjct 9421 TTTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9480

Query 9481 *****AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540
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Sbjct 9481 TTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540

Query 9541 AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
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Sbjct 9541 AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
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>**gb|GP053754.1|** Sequence 13 from patent US 7473772
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
      |||
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120
      |||
Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120
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Query	121	CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260

Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400

Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540

Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCCTGCGCCGCGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCCTGCGCCGCGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
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Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTGCTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680

Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTT CAGAATGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTT CAGAATGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
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Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
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Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
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Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACC ACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
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Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
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Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
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Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
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Sbjct	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCC	2940

Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080

Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220

Query	5221	GACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTTCTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCAGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCAGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360

Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500

Query	7501	CCATG	7560
Sbjct	7501	CCATG	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
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Sbjct	8581	CGGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640

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Query 8701 CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760
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Sbjct 8761 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820

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Sbjct 9541 AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
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>emb|FB361094.1| Sequence 13 from Patent WO2006110762
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
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Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGA	120
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Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
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Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
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Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
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Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
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Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
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Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
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Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
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Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200

Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340

Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
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Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
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Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
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Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
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Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
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Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
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Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATAACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Sbjct	3301	GGGCAGATAACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
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Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480

Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
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Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
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Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
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Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
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Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
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Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
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Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
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Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
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Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760

Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900

Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCCGCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAAGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAAGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTGTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTGTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040

Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccgggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Query	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTAG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTAG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACC CGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACC CGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540
Query	541	AGGCACGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTGCGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600

Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGTTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740

Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Query	2641	CCTTCTCTGTTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880

Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTT	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTGCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTGCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCAATCCCCTGCGCCGCGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCAATCCCCTGCGCCGCGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020

Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160

Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300

Query	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACC GAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACC GAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440

Query	7441	CATCCTCTGAGCCCCGCCCTTCTGGCTG	7500
Sbjct	7441	CATCCTCTGAGCCCCGCCCTTCTGGCTG	7500
Query	7501	CCATG	7560
Sbjct	7501	CCATG	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCTGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCTGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGCAGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGCAGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140

Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280

Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Sbjct	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCTGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCTGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCCTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCCTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560

Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700

Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840

Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TGGTCTGA	7560
Sbjct	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCA TGGTCTGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCAACCCCGTGCCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCAACCCCGTGCCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAACTCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAACTCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAAGTTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAAGTTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980

Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTCTTTAGCGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTCTTTAGCGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540

Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGTTTACGCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGTTTACGCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Sbjct	2641	CCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTAA	2820

Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960

Query	3961	CCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTGTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100

Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
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Query	6361	CCTTTGTGTCTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
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Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
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Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
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Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380

Query	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
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Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTG	7500
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Sbjct	7501	CCATG	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAAGCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
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Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
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Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
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Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTC	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTC	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAC	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAC	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
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>gb|EA110745.1| Sequence 2 from patent US 7201911
Length=9599
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Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTGCGGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTGCGGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080

Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCTATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCTATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220

Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360

Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500

Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAACCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAACCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640

Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780

Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920

Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
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Query 9061 CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCCGGAGCG 9120
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Sbjct 9061 CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCCGGAGCG 9120

Query 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
      |||
Sbjct 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180

Query 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
      |||
Sbjct 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240

Query 9241 TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG 9300
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      |||
Sbjct 9301 CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360

Query 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT 9420
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Sbjct 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT 9420

Query 9421 #####
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Sbjct 9421 TTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCTTCTTTCTTTCTTTTCTCC 9480

Query 9481 #####AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540
      |||
Sbjct 9481 TTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540

Query 9541 AGGTCCTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
      |||
Sbjct 9541 AGGTCCTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
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>**gb|EA029856.1|** Sequence 13 from patent US 7141405
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
      |||
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
      |||
Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120

Query 121 #####TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
      |||
Sbjct 121 #####TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

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Query 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

Query 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
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Sbjct 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360

Query 361 CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
      |||
Sbjct 361 CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420

Query 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
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Sbjct 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
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Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGGTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGGTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620

Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGT	2160
Query	2161	GCATGGTGCAGTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTGCAGTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Query	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760

Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
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Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTGCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTGCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
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Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCAATCCCGTGCGCCGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900

Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040

Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180

Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTGCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGTAATCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGTAATCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320

Query	7321	CTCGGAAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460

Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGTTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGTTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTCTGTTT	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTCTGTTT	9420
Query	9421	tt	9480
Sbjct	9421	TTTCC	9480
Query	9481	tt	9540
Sbjct	9481	TTTCTTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Query	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599

>**gb|EA019704.1|** Sequence 6 from patent US 7129342
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020

Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCTATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCTATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160

Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCCCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCCCTTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300

Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440

Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTCTACCAGGAGTTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTCTACCAGGAGTTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580

Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCTGTCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGTCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720

Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860

Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC	9000

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Query 9001 ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
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Sbjct 9001 ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060

Query 9061 CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG 9120
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Sbjct 9061 CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG 9120

Query 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
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Sbjct 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180

Query 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
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Sbjct 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240

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Sbjct 9301 CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360

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Sbjct 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT 9420

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Sbjct 9481 TTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540

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Sbjct 9541 AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
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>**gb|AR916157.1|** Sequence 67 from patent US 7084266
Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
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Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120

Query 121 cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181 GACGACCGGGTCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
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Sbjct 181 GACGACCGGGTCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240

Query 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

Query 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
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Sbjct 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360

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Sbjct 361 CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
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Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560

Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Query	2641	CCTTCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700

Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	ggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840

Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
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Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980

Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
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Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
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Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
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Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120

Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
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Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTGTCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGTCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
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Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
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Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
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Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
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Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
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Query	7201	TCTGGGCGCGGCCGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
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Query	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
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Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
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Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
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Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCG GTTGACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCG GTTGACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100

Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240

Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGCGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGCGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCTTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCTTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGTCAATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGTCAATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTTCATTCCTGCGCCGCGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTTCATTCCTGCGCCGCGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380

Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520

Query	5521	AGTTC AAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCC GCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTC AAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCC GCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCACCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660

Query	6661	CTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800

Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCAGTGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCAGTGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAC TATTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCTTTCTTGATAAACC CGCTCAATGCCTGGAGATTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCTTTCTTGATAAACC CGCTCAATGCCTGGAGATTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360

Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCCGTTTACGCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGTTTACGCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500

Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGACCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGACGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640

Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	CCTACGCCCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCTGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCTGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGGCACCCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780

Query	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACAGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACAGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCATTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACCAGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920

Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
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Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060

Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
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Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCAC TGCCA	6180
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Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
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Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
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Query	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAAC TGCCTGGGATTC	6360
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Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
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Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
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Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAAC TATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
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Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
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Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
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Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
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Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
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Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
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Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
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Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT	9420
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Sbjct	9421	TTCC	9480

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Sbjct 9481  TTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA 9540

Query 9541  AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct 9541  AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
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Length=9599

Score = 1.761e+04 bits (9536), Expect = 0.0
Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
Strand=Plus/Plus

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Sbjct 1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTATTG 60

Query 61     TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
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Query 121    CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Query 181    GACGACCGGGTCCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC 240
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Query 241    GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct 241    GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300

Query 301    GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Sbjct 301    GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360

Query 361    CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
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Sbjct 421    GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480

Query 481    GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Sbjct 481    GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540

Query 541    AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG 600
Sbjct 541    AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG 600

Query 601    GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Sbjct 601    GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660

Query 661    GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA 720
Sbjct 661    GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA 720

Query 721    CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG 780
Sbjct 721    CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG 780

Query 781    CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
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Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
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Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	CCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180

Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320

Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCATTCAAAGAAGAAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACCAGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCAGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCAGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATG	5460

Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600

Query	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGCCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGCCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740

Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAACCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACATTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAACC CGCTCAATGCCTGGAGATT TGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAACC CGCTCAATGCCTGGAGATT TGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300

Query	301	GTGCTTGCAGTGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGACCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	CCTACGCCCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGGCACCCCTGCACCTGCGGCT	3720

Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCATTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACCAGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860

Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAACCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACCCCAATAACGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT	9420

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Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCC TACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCC TACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920

Query	1921	ACAGCTGGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACACAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACACAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCCCTCAACGTCC	2940
Query	2941	GGGGGGGGCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060

Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200

Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGTCCCACCTAACATCGAGGAGGTTGCTC	4440
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E value Score Percent identity
Query start position Subject sta

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Query	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
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Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCTTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140

Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381		TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561		CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621		TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741		AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741		AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Query	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Query	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041		CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280

Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCCCCCTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCC	2940
Query	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001		ACATCACCAAATACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAATACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441		TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
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Sbjct 4561 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC 4620
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Sbjct  6781  |||||TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG 6840
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Sbjct  6841  ACGTAGCCCGTGTGTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG 6900
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Sbjct  6901  GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT 6960
Query  6961  CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA 7020
Sbjct  6961  CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA 7020
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Sbjct  7021  TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG 7080
Query  7081  AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG 7140
Sbjct  7081  AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG 7140
Query  7141  AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGGCCCTGCCCG 7200
Sbjct  7141  AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGGCCCTGCCCG 7200
Query  7201  TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG 7260
Sbjct  7201  TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG 7260
Query  7261  AACCACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCTCCTGTGCCTCCGC 7320
Sbjct  7261  AACCACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCTCCTGTGCCTCCGC 7320
Query  7321  CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380
Sbjct  7321  CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380
Query  7381  TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440
Sbjct  7381  TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440
Query  7441  CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500
Sbjct  7441  CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500
Query  7501  CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA 7560
Sbjct  7501  CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA 7560
Query  7561  CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGA 7620
Sbjct  7561  CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGA 7620
Query  7621  CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA 7680
Sbjct  7621  CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA 7680
Query  7681  GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740
Sbjct  7681  GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740
Query  7741  AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG 7800
Sbjct  7741  AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG 7800
Query  7801  TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG 7860
Sbjct  7801  TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG 7860
Query  7861  AAGCTTGCAGCCTGACGCCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920
Sbjct  7861  AAGCTTGCAGCCTGACGCCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920
Query  7921  ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC 7980
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Sbjct	7921		ACGTCGGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981		TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981		TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041		TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041		TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101		TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101		TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161		TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTCGAAG	8220
Sbjct	8161		TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTCGAAG	8220
Query	8221		CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221		CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281		CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281		CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341		CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341		CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401		CCAATTCAAGGGGGGAAAAGTACCGCAGGTGCCGCGGAGCGGCGTACTGACAA	8460
Sbjct	8401		CCAATTCAAGGGGGGAAAAGTACCGCAGGTGCCGCGGAGCGGCGTACTGACAA	8460
Query	8461		CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461		CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521		GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521		GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581		CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581		CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641		CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641		CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701		CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701		CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761		ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761		ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821		CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821		CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881		CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881		CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941		TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941		TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001		ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001		ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061		CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120

Sbjct	9061		CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121		TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121		TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181		ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181		ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241		TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241		TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301		CCCGGCCCGCTGGTTCCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301		CCCGGCCCGCTGGTTCCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361		TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAG	9407
Sbjct	9361		TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAG	9407

Score = 366 bits (198), Expect = 2e-97
Identities = 198/198 (100%), Gaps = 0/198 (0%)
Strand=Plus/Plus

Query	9402		CTTAAGCCATTTCTTG:*****	9461
Sbjct	10606		CTTAAGCCATTTCTTGTT	10665
Query	9462		*****AATGGTGGCTCCATCTTAGCCCT	9521
Sbjct	10666		CCTTTCTTCTTTTTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT	10725
Query	9522		AGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGG	9581
Sbjct	10726		AGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGG	10785
Query	9582		CCTCTCTGCAGATCATGT	9599
Sbjct	10786		CCTCTCTGCAGATCATGT	10803

>gb|GP244623.1| Sequence 1 from patent US 7504255
Length=9646

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1		GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1		GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61		TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61		TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121		*****TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121		CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181		GACGACCGGGTCTTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181		GACGACCGGGTCTTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241		GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241		GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300

Query	301	GTGCTTGCAGAGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAAGTCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720

Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860

Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGTCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGTCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCTGTCAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCTGTCAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTTCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTTCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCGCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGTCTCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGTCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTTCCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTTT	9420

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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Sort alignments for this subject se
E value  Score  Percent identity
Query start position  Subject sta
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Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACC CGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACC CGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540

Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680

Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820

Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGCTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGCTCC	2940
Query	2941	CGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCACTTACTCATGTGTGTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCCGTGCATCCAGATGTATAACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCCGTGCATCCAGATGTATAACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960

Query	3961	CCCCGGTGTTACGGACAACCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGG	5100

Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCCTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCCTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACC GG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACC GG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACC GAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACC GAATCAACCCTATCTACTGCCTTGGCCGAGC	7380

Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTACCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTACCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520

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Query 8521 GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG 8580
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Sbjct 8521 GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG 8580

Query 8581 CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT 8640
      |||
Sbjct 8581 CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT 8640

Query 8641 CCGccccccccgggagccccacaaccagaatacgaacttggagcttataacatcatgct 8700
      |||
Sbjct 8641 CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGAacttggagcttataacatcatgct 8700

Query 8701 CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760
      |||
Sbjct 8701 CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760

Query 8761 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820
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Sbjct 8761 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820

Query 8821 CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
      |||
Sbjct 8821 CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA 8880

Query 8881 CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA 8940
      |||
Sbjct 8881 CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA 8940

Query 8941 TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC 9000
      |||
Sbjct 8941 TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC 9000

Query 9001 ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
      |||
Sbjct 9001 ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060

Query 9061 CATGCCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
      |||
Sbjct 9061 CATGCCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120

Query 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
      |||
Sbjct 9121 TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180

Query 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
      |||
Sbjct 9181 ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240

Query 9241 TGTCCGGTTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG 9300
      |||
Sbjct 9241 TGTCCGGTTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG 9300

Query 9301 CCCGGCCCCGCTGGTTCGTGTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360
      |||
Sbjct 9301 CCCGGCCCCGCTGGTTCGTGTTTGGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360

Query 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT 9420
      |||
Sbjct 9361 TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTTT 9420

Query 9421 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9480
      |||
Sbjct 9421 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT--TTCTTTTTTTTT 9478

Query 9481 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9498
      |||
Sbjct 9479 TTT-TTTTTTCTTTTTTTTT 9495
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Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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Query 9418 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9474
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9/8/2009

Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCC GCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCC GCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920

Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060

Sbjct	3001	ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200

Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTT CAGAATGAAGTACCCTGACGCACCCAATCACC AAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTT CAGAATGAAGTACCCTGACGCACCCAATCACC AAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340

Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480

Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGTTTTCGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
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Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTTGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCTTGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGGA	7620

Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccgggggaacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760

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Sbjct  8701  CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTTACCCGTG  8760
Query  8761  ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT  8820
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Sbjct  8761  ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT  8820
Query  8821  CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA  8880
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Sbjct  8821  CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA  8880
Query  8881  CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA  8940
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Sbjct  8881  CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA  8940
Query  8941  TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC  9000
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Sbjct  8941  TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC  9000
Query  9001  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG  9060
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Sbjct  9001  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG  9060
Query  9061  CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG  9120
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Sbjct  9061  CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG  9120
Query  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA  9180
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Sbjct  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA  9180
Query  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT  9240
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Sbjct  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT  9240
Query  9241  TGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG  9300
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Sbjct  9241  TGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG  9300
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Sbjct  9301  CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC  9360
Query  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT  9420
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Query  9421  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9480
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Sbjct  9421  TTTT-----TTCTTTTTTTTT  9478
Query  9481  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9498
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Sbjct  9479  TTT-TTTTTCCTTTTTTTT  9495

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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

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Sbjct  9461  TTTT-----TTCTTTTTTTTTTTTCTTTT-----TTCTTTCTTC-TT  9519
Query  9475  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9532
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Sbjct  9520  TTTTCTTTCTTTTCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA  9579
Query  9533  GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG  9592
      |||
Sbjct  9580  GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG  9639
Query  9593  ATCATGT  9599
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Sbjct  9640  ATCATGT  9646

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>gb|EA263001.1| Sequence 1 from patent US 7235394
Length=9646

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCTTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020

Sbjct	961		1020
Query	1021		1080
Sbjct	1021		1080
Query	1081		1140
Sbjct	1081		1140
Query	1141		1200
Sbjct	1141		1200
Query	1201		1260
Sbjct	1201		1260
Query	1261		1320
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Query	1321		1380
Sbjct	1321		1380
Query	1381		1440
Sbjct	1381		1440
Query	1441		1500
Sbjct	1441		1500
Query	1501		1560
Sbjct	1501		1560
Query	1561		1620
Sbjct	1561		1620
Query	1621		1680
Sbjct	1621		1680
Query	1681		1740
Sbjct	1681		1740
Query	1741		1800
Sbjct	1741		1800
Query	1801		1860
Sbjct	1801		1860
Query	1861		1920
Sbjct	1861		1920
Query	1921		1980
Sbjct	1921		1980
Query	1981		2040
Sbjct	1981		2040
Query	2041		2100
Sbjct	2041		2100
Query	2101		2160

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|||||
Sbjct 2101 GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160
Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220
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Sbjct 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220
Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280
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Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280
Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC 2340
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Sbjct 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC 2340
Query 2341 TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA 2400
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Sbjct 2341 TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA 2400
Query 2401 CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT 2460
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Sbjct 2401 CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT 2460
Query 2461 CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG 2520
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Sbjct 2461 CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG 2520
Query 2521 CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
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Sbjct 2521 CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG 2580
Query 2581 CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT 2640
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Sbjct 2581 CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT 2640
Query 2641 CCTTCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG 2700
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Sbjct 2641 CCTTCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG 2700
Query 2701 TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG 2760
|||||
Sbjct 2701 TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG 2760
Query 2761 CATA CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA 2820
|||||
Sbjct 2761 CATA CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA 2820
Query 2821 TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC 2880
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Sbjct 2821 TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC 2880
Query 2881 AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC 2940
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Sbjct 2881 AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC 2940
Query 2941 cccccccCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG 3000
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Sbjct 2941 GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTTGTACACCCGACTCTGGTATTTG 3000
Query 3001 ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC 3060
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Sbjct 3001 ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC 3060
Query 3061 TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA 3120
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Sbjct 3061 TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA 3120
Query 3121 AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA 3180
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Sbjct 3121 AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA 3180
Query 3181 CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC 3240
|||||
Sbjct 3181 CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC 3240
Query 3241 TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG 3300
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Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440

Sbjct	4381		CCACTGCTACCCCTCCGGGCTCCGTCAC	4440
Query	4441		TGTCCACCACCGGAGAGATCCCCTTTT	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCTTTT	4500
Query	4501		GGGGAAGACATCTCATCTTCTGCCACT	4560
Sbjct	4501		GGGGAAGACATCTCATCTTCTGCCACT	4560
Query	4561		TGGTCGCATTGGGCATCAATGCCGTGG	4620
Sbjct	4561		TGGTCGCATTGGGCATCAATGCCGTGG	4620
Query	4621		CGACCAGCGGCGATGTTGTCGTCGTG	4680
Sbjct	4621		CGACCAGCGGCGATGTTGTCGTCGTG	4680
Query	4681		ACTTCGACTCTGTGATAGACTGCAAC	4740
Sbjct	4681		ACTTCGACTCTGTGATAGACTGCAAC	4740
Query	4741		ACCCTACCTTTACCATTGAGACAACC	4800
Sbjct	4741		ACCCTACCTTTACCATTGAGACAACC	4800
Query	4801		GCCGGGGCAGGACTGGCAGGGGGAAG	4860
Sbjct	4801		GCCGGGGCAGGACTGGCAGGGGGAAG	4860
Query	4861		GCCCCTCGGGCATGTTGACTCGTCCG	4920
Sbjct	4861		GCCCCTCGGGCATGTTGACTCGTCCG	4920
Query	4921		GGTATGAGCTCACGCCCCGCCGAGAC	4980
Sbjct	4921		GGTATGAGCTCACGCCCCGCCGAGAC	4980
Query	4981		GGCTTCCCCTGTGTCAGGACCATCTT	5040
Sbjct	4981		GGCTTCCCCTGTGTCAGGACCATCTT	5040
Query	5041		ATATAGATGCCCACTTTTTATCCCAG	5100
Sbjct	5041		ATATAGATGCCCACTTTCTATCCCAG	5100
Query	5101		TAGCGTACCAAGCCACCGTGTGCGCT	5160
Sbjct	5101		TAGCGTACCAAGCCACCGTGTGCGCT	5160
Query	5161		TGTGGAAGTGTTTGATCCGCCTTAA	5220
Sbjct	5161		TGTGGAAGTGTTTGATCCGCCTTAA	5220
Query	5221		GACTGGGCGCTGTTTCAGAATGAAGT	5280
Sbjct	5221		GACTGGGCGCTGTTTCAGAATGAAGT	5280
Query	5281		CATGCATGTCGGCCGACCTGGAGGTC	5340
Sbjct	5281		CATGCATGTCGGCCGACCTGGAGGTC	5340
Query	5341		TGGCTGCTCTGGCCGCGTATTGCCCT	5400
Sbjct	5341		TGGCTGCTCTGGCCGCGTATTGCCCT	5400
Query	5401		TCTTGTCGGGGAAGCCGGCAATTATA	5460
Sbjct	5401		TCTTGTCGGGGAAGCCGGCAATTATA	5460
Query	5461		AGATGGAAGAGTGCTCTCAGCACTT	5520
Sbjct	5461		AGATGGAAGAGTGCTCTCAGCACTT	5520
Query	5521		AGTTCAAGCAGAAGGCCCTCGGCCT	5580

Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641		ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761		TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821		CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881		TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881		TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941		AGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941		AGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001		TCTCGCCTGGAGCCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001		TCTCGCCTGGAGCCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061		GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGGA	6120
Sbjct	6061		GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGGA	6120
Query	6121		ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121		ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181		TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181		TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241		AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241		AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301		TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301		TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361		CCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361		CCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421		CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421		CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481		TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481		TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541		CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541		CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601		CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601		CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661		CTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACG	6720

Sbjct	6661	CTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGA	7620
Query	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860

Sbjct	7801	 TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	 AAGCTTGCAGCCTGACGCCCCACATTACAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	 AAGCTTGCAGCCTGACGCCCCACATTACAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	 TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	 TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	 TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	 TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCTGTTCCCCGACCTGGGCG	8100
Query	8101	 TGC GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	 TGC GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAAG	8220
Sbjct	8161	 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAAG	8220
Query	8221	 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	 CCAATTCAAGGGGGGAAAAGTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	 CCAATTCAAGGGGGGAAAAGTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	 CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	 CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	 GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	 GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	 CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	 CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	 CCGgggggggggggggggggggggACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	 CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	 CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	 CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	 ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	 CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	 CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	 CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	 CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	 TCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000


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Sbjct 8941 |TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC| 9000
Query 9001 |ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG| 9060
Sbjct 9001 |ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG| 9060
Query 9061 |CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG| 9120
Sbjct 9061 |CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG| 9120
Query 9121 |TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA| 9180
Sbjct 9121 |TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA| 9180
Query 9181 |ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT| 9240
Sbjct 9181 |ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT| 9240
Query 9241 |TGTCGGTTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG| 9300
Sbjct 9241 |TGTCGGTTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG| 9300
Query 9301 |CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC| 9360
Sbjct 9301 |CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC| 9360
Query 9361 |TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT| 9420
Sbjct 9361 |TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTTT| 9420
Query 9421 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9480
Sbjct 9421 |TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT--TTCTTTTTTTTT| 9478
Query 9481 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9498
Sbjct 9479 |TTT-TTTTTCTTTTTTTT| 9495
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Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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Query 9418 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9474
Sbjct 9461 |TTTTTTTTTCTTTTTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTTTTTTCTTTCCCTTC-TT| 9519
Query 9475 |tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt| 9532
Sbjct 9520 |TTTTCTTTTCTTTTCTTCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA| 9579
Query 9533 |GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG| 9592
Sbjct 9580 |GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG| 9639
Query 9593 |ATCATGT| 9599
Sbjct 9640 |ATCATGT| 9646
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>emb|CS541301.1| Sequence 49 from Patent WO2007013882
Length=9646

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

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Query 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG| 60
Sbjct 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG| 60
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Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200

Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340

Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTCTTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480

Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTGTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCC	4620

Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCCTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760

Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900

Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTCAGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTCAGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040

Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Sbjct	8881	CCCATTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACCTGTGAGA	8940
Query	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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>dbj|BD069982.1| Functional DNA clone for hepatitis C virus (HCV) and uses thereof
Length=9646
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Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

9/8/2009

Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTTG GTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Sbjct	841	GGAACCTTCTTG GTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATTTG	3000
Sbjct	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATAACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATAACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCAAGGGTCCGTGCATCCAGATGTATAACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCAAGGGTCCGTGCATCCAGATGTATAACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720

Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860

Query	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCCGG	4980
Query	4981	GGCTTCCCCTGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCGCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCGCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCGTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCCTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCCTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGCTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGCTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140

Query	7141	AGGTCTCCGTACCTGCGAGAAATTTCTGCGGAAGTCTCGGAGATTTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCGAGAAATTTCTGCGGAAGTCTCGGAGATTTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAAGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAAGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTGTT	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTGTT	9420

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

```
Sort alignments for this subject sequence
E value   Score  Percent identity
Query start position  Subject start position
```

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAACC CGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAACC CGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540

Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820

Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCCTAGGGACAACCATGAGAT	3960
		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCCTAGGGACAACCATGAGAT	

Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100

Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCCTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCCTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACC GG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACC GG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380

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Sbjct  8461  CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCCGGGCAGCCTGTCGAGCCGCAG 8520
Query  8521  GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG 8580
      |||
Sbjct  8521  GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG 8580
Query  8581  CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT 8640
      |||
Sbjct  8581  CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT 8640
Query  8641  CCGgggggggggggggggggggggACAACCAGAATACGACTTGGAGCTTATAACATCATGCT 8700
      |||
Sbjct  8641  CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT 8700
Query  8701  CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760
      |||
Sbjct  8701  CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG 8760
Query  8761  ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820
      |||
Sbjct  8761  ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT 8820
Query  8821  CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
      |||
Sbjct  8821  CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA 8880
Query  8881  CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA 8940
      |||
Sbjct  8881  CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA 8940
Query  8941  TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC 9000
      |||
Sbjct  8941  TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC 9000
Query  9001  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
      |||
Sbjct  9001  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG 9060
Query  9061  CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
      |||
Sbjct  9061  CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG 9120
Query  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
      |||
Sbjct  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA 9180
Query  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
      |||
Sbjct  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT 9240
Query  9241  TGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG 9300
      |||
Sbjct  9241  TGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG 9300
Query  9301  CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360
      |||
Sbjct  9301  CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC 9360
Query  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGttt 9420
      |||
Sbjct  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTGTTT 9420
Query  9421  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9480
      |||
Sbjct  9421  TTTT-----TTCTTTTTTTTT 9478
Query  9481  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9498
      |||
Sbjct  9479  TTT-TTTTTCCTTTTTTTT 9495
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Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

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Query  9418  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9474
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Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACCG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860

Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTAACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Query	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTT?????TCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	???????CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATTTG	3000

Query	3001	ACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTTCATTCCCGTGCGCCGCGCAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTACAGAGGCACGCCGATGTTCATTCCCGTGCGCCGCGCAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140

Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280


Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420

Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCTCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560
Sbjct	7501	CCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCTGA	7560

Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccccgggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

9/8/2009

>gb|EA263004.1|  Sequence 5 from patent US 7235394
Length=12980

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0
Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGC GGCTTCGCGGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGC GGCTTCGCGGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACCG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960

Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTC	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTC	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		1740
Query	1741	AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCC	1860
Sbjct	1801		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		1980
Query	1981	GCAATTGGTTTCGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100

Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240

Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380

Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCTGTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520

Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660

Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGTTTTCGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTTCGA	7560
Sbjct	7501	CCATGCCCCCGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800

Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGgggggggggggaggggggACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940

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Sbjct  8881  CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA  8940
Query   8941  TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC  9000
      |||
Sbjct  8941  TCTACGGAGCCTGCTACTCCATAGAACCAGTGGATCTACCTCCAATCATTCAAAGACTCC  9000
Query   9001  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG  9060
      |||
Sbjct  9001  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG  9060
Query   9061  CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG  9120
      |||
Sbjct  9061  CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG  9120
Query   9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA  9180
      |||
Sbjct  9121  TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA  9180
Query   9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT  9240
      |||
Sbjct  9181  ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT  9240
Query   9241  TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG  9300
      |||
Sbjct  9241  TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG  9300
Query   9301  CCCGGCCCCGCTGGTTCTGGTTTTCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC  9360
      |||
Sbjct  9301  CCCGGCCCCGCTGGTTCTGGTTTTCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC  9360
Query   9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTT  9420
      |||
Sbjct  9361  TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTTT  9420
Query   9421  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9480
      |||
Sbjct  9421  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9480
Query   9481  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9498
      |||
Sbjct  9481  TTT-TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9497

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Score = 285 bits (154), Expect = 6e-73
 Identities = 177/187 (94%), Gaps = 6/187 (3%)
 Strand=Plus/Plus

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Query   9418  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9474
      |||
Sbjct  9463  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9521
Query   9475  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9532
      |||
Sbjct  9522  TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  9581
Query   9533  GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG  9592
      |||
Sbjct  9582  GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG  9641
Query   9593  ATCATGT  9599
      |||
Sbjct  9642  ATCATGT  9648

```

>dbj|BD069985.1|  Functional DNA clone for hepatitis C virus (HCV) and uses thereof
 Length=12980

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0
 Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACCG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140

Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCAGAGGCTGGAAGCGGCCTGCAACTGGA	2280

Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTG	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTG	2640
Query	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCGCGGAGCGG	2700
Sbjct	2641	CCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCGCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTAGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACGTGCTTGTACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560

Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700

Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCGTGACTCCCCCTTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCGAACCGG	6840


Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGCCCGAGC	7380
Query	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980

Query	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTCTTTAGCGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Sbjct	8881	CCCATTCTTTAGCGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGA	8940
Query	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCG	9120

Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCGTGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCGCTGGTTCGTGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGttt	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCTGTTT	9420
Query	9421	tt	9480
Sbjct	9421	TT	9480
Query	9481	tt	9498
Sbjct	9481	TTT-TTTTTTCTTTTTTTT	9497

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

Query	9418	tttttttt~tt	9474
Sbjct	9463	TTTTTTTTTCTTTTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTTTTTTTCTTTCCTTC-TT	9521
Query	9475	tt	9532
Sbjct	9522	TTTTCTTTTCTTTTCTTCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTA	9581
Query	9533	GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG	9592
Sbjct	9582	GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG	9641
Query	9593	ATCATGT	9599
Sbjct	9642	ATCATGT	9648

>gb|AR110831.1|AR110831  Sequence 5 from patent US 6127116
Length=12980

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0
Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAo	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240

Sbjct	181	GACGACCGGGTCCTTTTCTTGATAAACCCGCTCAATGCCTGGAGATTG	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241		300
Query	301	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	900
Sbjct	841	GGAACCTTCTTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACCG	900
Query	901	GGAACCTTCTTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACCG	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC	960
Query	961	TGCCCCGCTTCAGCCTACCAAGTGC	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC	1320
Query	1321	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query			

Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520

Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCC GGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCC GGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATCACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAG	3660

Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTACGGACAACCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800

Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCC GTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCC GTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTT CAGAATGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTT CAGAATGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTACACAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCCTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCCTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940

Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGGTTG	6060
Query	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCC GGGGGA	6120
Sbjct	6061	GCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCC GGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCA	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCC GAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCC GAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080

Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCAC TTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCAC TTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGTTGAATTCTCGTGCAAG	8220

Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTC AAGGGGGGAAAAC TGC GGCTACCGCAGGTGCCGCGC GAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTC AAGGGGGGAAAAC TGC GGCTACCGCAGGTGCCGCGC GAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGAAAAAAAAAGGAGGACAAAAACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTC TTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTA ACTGTGAGA	8940
Sbjct	8881	CCCATTTC TTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTA ACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACC ACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACC ACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAA ACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAA ACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	TGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360

Score = 285 bits (154), Expect = 6e-73
Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus

>**emb|GN088768.1|** Sequence 3 from Patent WO2009030872
Length=9599

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCCTTTCTTGGATAAACC CGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCCTTTCTTGGATAAACC CGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTAGCCTATCCCCA	540

Sbjct	481		GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601		GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601		GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721		CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721		CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		GCCCTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021		TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTGT	1259
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTGT	1259
Query	1260		TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGG	1319
Sbjct	1260		TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGG	1319
Query	1320		TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Sbjct	1320		TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Query	1380		ATGATCGCTGGTGCTCACTGGGGAGTCCGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Sbjct	1380		ATGATCGCTGGTGCTCACTGGGGAGTCCGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Query	1440		AACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCAC	1499
Sbjct	1440		AACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCAC	1499
Query	1500		GTCACCGGGGGAAATGCCGGCCGACACAGGCTGGGCTTGTTGGTCTCCTTACACCAGGC	1559
Sbjct	1500		GTCACCGGGGGAAATGCCGGCCGACACAGGCTGGGCTTGTTGGTCTCCTTACACCAGGC	1559
Query	1560		GCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCC	1619
Sbjct	1560		GCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCC	1619
Query	1620		TTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAA	1679


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Sbjct 1620 TTGAAC TGCAAC GATAGC CTTACC ACCGGC TGGT TAGCAG GGCCTC TTCTAT CGCCACA AAA 1679
Query 1680 TTCAAC TCTTCAG GCTG TCCTG AGAGGT TGGCC AGCTGCC GACGCCTT ACCGAT TTTTGCC 1739
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Sbjct 1680 TTCAAC TCTTCAG GCTG TCCTG AGAGGT TGGCC AGCTGCC GACGCCTT ACCGAT TTTTGCC 1739
Query 1740 CAGGGC TGGGGT CCTATC AGTTAT GCCAAC GGAAGC GGCCTC GACGAAC GCCCCT ACTGC 1799
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Sbjct 1740 CAGGGC TGGGGT CCTATC AGTTAT GCCAAC GGAAGC GGCCTC GACGAAC GCCCCT ACTGC 1799
Query 1800 TGGCACT ACCCTCC AAGACCT TGTGGC ATTGTG CCCGCA AAGAGC GTGTGT GGGCCCG GTA 1859
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Sbjct 1800 TGGCACT ACCCTCC AAGACCT TGTGGC ATTGTG CCCGCA AAGAGC GTGTGT GGGCCCG GTA 1859
Query 1860 TATTGCT TCACTCCC AGCCCC GTGGTGG TGGGAAC GACCGAC AGGTCGG GCGCGCCT ACC 1919
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Sbjct 1860 TATTGCT TCACTCCC AGCCCC GTGGTGG TGGGAAC GACCGAC AGGTCGG GCGCGCCT ACC 1919
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Sbjct 1920 TACAGCT GGGGTG CAAATG ATACGG ATGTCT TCGTCCTT AACAA CACCAG GCCACC GCTG 1979
Query 1980 GGCAATT GGTTCGG TTGTAC CTGGAT GAACTCA ACTGG ATTACCA AAGTGT GCGGG AGCG 2039
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Sbjct 1980 GGCAATT GGTTCGG TTGTAC CTGGAT GAACTCA ACTGG ATTACCA AAGTGT GCGGG AGGTG 2039
Query 2040 CCCCCTT GTGTCA TCGGAG GGGTGG GCAACA ACACCT TGCTCT GCCCCA CTGATT GCTTC 2099
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Sbjct 2040 CCCCCTT GTGTCA TCGGAG GGGTGG GCAACA ACACCT TGCTCT GCCCCA CTGATT GCTTC 2099
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Sbjct 2100 CGCAAAC ATCCGGA AGCCAC ATACTCT CCGTGC GGCCTC CCGTCC CTGGAT TACACC CAGG 2159
Query 2160 TGCATGG TCGACT ACCCGT ATAGGC TTTGGC ACTATC CTTGT ACCATCA ATTAC ACCATA 2219
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Sbjct 2160 TGCATGG TCGACT ACCCGT ATAGGC TTTGGC ACTATC CTTGT ACCATCA ATTAC ACCATA 2219
Query 2220 TTCAAAG TCAGGAT GTACGT GGGAG GGGTGC GAGCAC AGGCTG GAAGC GGCCTG CAACTGG 2279
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Sbjct 2220 TTCAAAG TCAGGAT GTACGT GGGAG GGGTGC GAGCAC AGGCTG GAAGC GGCCTG CAACTGG 2279
Query 2280 ACGCGGG GCGAAC GCTGTG ATCTGG AAGAC AGGGAC AGGTCC GAGCTC AGCCCC GTTGCTG 2339
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Sbjct 2280 ACGCGGG GCGAAC GCTGTG ATCTGG AAGAC AGGGAC AGGTCC GAGCTC AGCCCC ATTGCTG 2339
Query 2340 CTGTCCA CCACAC AGTGGC AGGTCCT TCCGTG TTCTTT CACGACC CTGCC AGCCTT GTCC 2399
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Sbjct 2340 CTGTCCA CCACAC AGTGGC AGGTCCT TCCGTG TTCTTT CACGACC CTGCC AGCCTT GTCC 2399
Query 2400 ACCGGCC TCATCCA CCTCCA CCAGA ACATTG TGGAC GTGCAG TACTTG TACGGGG TAGGG 2459
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Sbjct 2400 ACCGGCC TCATCCA CCTCCA CCAGA ACATTG TGGAC GTGCAG TACTTG TACGGGG TGGGG 2459
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Sbjct 2460 TCAAGCA TCGCGT CCTGGG CCATTA AGTGGG AGTACG TCGTTCT CCTGT TCCCTT CTGCTT 2519
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Query 2760 GCATACG CACTGG ACACGG AGGTGG CCGCGT CGTGTG GCGGCG GTTGTT CTTGT CGGGTTA 2819
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Sbjct	2760		GCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCTGGGTTA	2819
Query	2820		ATGGCGCTGACTCTGTCTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTT	2879
Sbjct	2820		ATGGCGCTGACTCTGTCTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTT	2879
Query	2880		CAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGCTCAACGTC	2939
Sbjct	2880		CAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGCTCAACGTC	2939
Query	2940		CGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTT	2999
Sbjct	2940		CGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACTCTGGTATTT	2999
Query	3000		GACATCACCAAATACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000		GACATCACCAAATACTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060		CTTAAAGTCCCCTACTTCTGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060		CTTAAAGTCCCCTACTTCTGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Query	3120		AAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGC	3179
Sbjct	3120		AAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGC	3179
Query	3180		ACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGAT	3239
Sbjct	3180		ACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGAT	3239
Query	3240		CTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGG	3299
Sbjct	3240		CTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGG	3299
Query	3300		GGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGG	3359
Sbjct	3300		GGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGG	3359
Query	3360		GGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTG	3419
Sbjct	3360		GGTCAGGAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTG	3419
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Sbjct	3420		GCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGC	3479
Query	3480		CTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGGTCCAGATCGTGTCAACTGCTACC	3539
Sbjct	3480		CTGACTAGCCGGGACAAAAACCAAGTGGAGGGTGGAGGTCCAGATCGTGTCAACTGCTACC	3539
Query	3540		CAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGA	3599
Sbjct	3540		CAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGA	3599
Query	3600		ACGAGGACCATCGCATCACCCAAGGGTCCTGTCTATCCAGATGTATAACCAATGTGGACCAA	3659
Sbjct	3600		ACGAGGACCATCGCATCACCCAAGGGTCCTGTCTATCCAGATGTATAACCAATGTGGACCAA	3659
Query	3660		GACCTTGTGGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGC	3719
Sbjct	3660		GACCTTGTGGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGC	3719
Query	3720		TCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGT	3779
Sbjct	3720		TCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGT	3779
Query	3780		GATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGG	3839
Sbjct	3780		GATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGG	3839
Query	3840		GGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACC	3899
Sbjct	3840		GGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACC	3899
Query	3900		CGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGA	3959

Sbjct	3900	 CGTGGAGTGGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGA	3959
Query	3960	 TCCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC	4019
Sbjct	3960	 TCCCCGGTGTTCACGGACAACCCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC	4019
Query	4020	 CACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCC	4079
Sbjct	4020	 CACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCC	4079
Query	4080	 CAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCT	4139
Sbjct	4080	 CAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCT	4139
Query	4140	 TACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACC	4199
Sbjct	4140	 TACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACC	4199
Query	4200	 ACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCA	4259
Sbjct	4200	 ACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCA	4259
Query	4260	 GGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4319
Sbjct	4260	 GGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4319
Query	4320	 TTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTC	4379
Sbjct	4320	 TTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTC	4379
Query	4380	 GCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCT	4439
Sbjct	4380	 GCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCT	4439
Query	4440	 CTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4499
Sbjct	4440	 CTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4499
Query	4500	 GGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAG	4559
Sbjct	4500	 GGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAG	4559
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Sbjct	4560	 CTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCATC	4619
Query	4620	 CCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGC	4679
Sbjct	4620	 CCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGC	4679
Query	4680	 GACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTT	4739
Sbjct	4680	 GACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTT	4739
Query	4740	 GACCCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAA	4799
Sbjct	4740	 GACCCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAG	4799
Query	4800	 CGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGGAG	4859
Sbjct	4800	 CGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGGAG	4859
Query	4860	 CGCCCCCTCCGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACGCGGGCTGTGCT	4919
Sbjct	4860	 CGCCCCCTCCGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACGCGGGCTGTGCT	4919
Query	4920	 TGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4979
Sbjct	4920	 TGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCG	4979
Query	4980	 GGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACT	5039
Sbjct	4980	 GGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACT	5039
Query	5040	 CATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTG	5099

Sbjct	5040	 CATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTG	5099
Query	5100	GTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAG	5159
Sbjct	5100	GTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAG	5159
Query	5160	ATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCCAACACCCCTGCTATAC	5219
Sbjct	5160	ATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCCAACACCCCTGCTATAC	5219
Query	5220	AGACTGGGCGCTGTTTCTCAGAAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATG	5279
Sbjct	5220	AGACTGGGCGCTGTTTCTCAGAAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATG	5279
Query	5280	ACATGCATGTCGGCCGACCTGGAGGTTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTC	5339
Sbjct	5280	ACATGCATGTCGGCCGACCTGGAGGTTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTC	5339
Query	5340	CTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATC	5399
Sbjct	5340	CTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATT	5399
Query	5400	GTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGAT	5459
Sbjct	5400	GTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGAT	5459
Query	5460	GAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAG	5519
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Query	5700	ATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACC	5759
Sbjct	5700	ATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACC	5759
Query	5760	CTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCT	5819
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Sbjct	6120	AACCATGTTTTCCCCACGCACTACGTGCCGGAGAGCGATGTAGCCGCCCGCGTCACTGCC	6179
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Sbjct 6180  |||||||||||||||||||ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG 6239
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Length=9622

Score = 1.713e+04 bits (9277), Expect = 0.0
Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus

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Sbjct	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCT	2338
Sbjct	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399		CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399		CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Query	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT	2938
Query	2939		CCgggggggCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939		CCGGGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998
Query	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		GTTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119		GAAGAT-AGCCGGAGGTCAATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct	3119		GAAGATGA-CCGGAGGTCAATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTG	3177
Query	3178		GCACCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAG	3237
Sbjct	3178		GCACCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAG	3237
Query	3238		ATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Sbjct	3238		ATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Query	3298		GGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357

Sbjct	3298		GGGGGGCAGATACCGCCGCGTGC	GGT	GACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Query	3358		GGGGCCAGGAGATACTGCTTGGG	CCAGCCGACGGAATGGTCTCCAAGGGT	TGGAGGTTGC	3417
Sbjct	3358		GGGGCCAGGAGATACTGCTTGGG	CCAGCCGACGGAATGGTCTCCAAGGGT	TGGAGGTTGC	3417
Query	3418		TGGCGCCCATCACGGCGTACGCC	CAGCAGACGAGAGGCCCTCCTAGGGT	TGTATAATCACCA	3477
Sbjct	3418		TGGCGCCCATCACGGCGTACGCC	CAGCAGACGAGAGGCCCTCCTAGGGT	TGTATAATCACCA	3477
Query	3478		GCCTGACTGGCCGGGACAAAAAC	CAAGTGGAGGGT	GAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478		GCCTGACTGGCCGGGACAAAAAC	CAAGTGGAGGGT	GAGGTCCAGATCGTGTCAACTGCTA	3537
Query	3538		CCCAAACCTTCTGGCAACGTGC	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG		3597
Sbjct	3538		CCCAAACCTTCTGGCAACGTGC	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG		3597
Query	3598		GAACGAGGACCATCGCATCACCC	AAGGTTCTGTATCCAGATGTATAACCAATGTGGACC		3657
Sbjct	3598		GAACGAGGACCATCGCATCACCC	AAGGTTCTGTATCCAGATGTATAACCAATGTGGACC		3657
Query	3658		AAGACCTTGTGGGCTGGCCCGCT	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG		3717
Sbjct	3658		AAGACCTTGTGGGCTGGCCCGCT	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG		3717
Query	3718		GCTCCTCGGACCTTTACCTGGT	CACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG		3777
Sbjct	3718		GCTCCTCGGACCTTTACCTGGT	CACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG		3777
Query	3778		GTGATAGCAGGGGTAGCCTGCT	TTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGG		3837
Sbjct	3778		GTGATAGCAGGGGTAGCCTGCT	TTTCGCCCCGGCCATTTCTACTTAAAGGCTCCTCGG		3837
Query	3838		GGGGTCCGCTGTTGTGCCCCG	CGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA		3897
Sbjct	3838		GGGGTCCGCTGTTGTGCCCCG	CGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA		3897
Query	3898		CCCGTGGAGTGGCTAAAGCGGT	TGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA		3957
Sbjct	3898		CCCGTGGAGTGGCTAAAGCGGT	TGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA		3957
Query	3958		GATCCCCGGTGTTACGGACAAC	TCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG		4017
Sbjct	3958		GATCCCCGGTGTTACGGACAAC	TCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG		4017
Query	4018		CCCACCTGCATGCTCCACCGG	CAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAG		4077
Sbjct	4018		CCCACCTGCATGCTCCACCGG	CAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAG		4077
Query	4078		CCCAGGGCTACAAGGTGTTGGT	GCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG		4137
Sbjct	4078		CCCAGGGCTACAAGGTGTTGGT	GCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG		4137
Query	4138		CTTACATGTCCAAGGCCCAT	GGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA		4197
Sbjct	4138		CTTACATGTCCAAGGCCCAT	GGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTA		4197
Query	4198		CCACTGGCAGCCCCATCACGT	ACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT		4257
Sbjct	4198		CCACTGGCAGCCCCATCACGT	ACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT		4257
Query	4258		CAGGAGGTGCTTATGACATA	AATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA		4317
Sbjct	4258		CAGGAGGCGCTTATGACATA	AATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA		4317
Query	4318		TCTTGGGCATCGGCACTGT	CCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGC		4377
Sbjct	4318		TCTTGGGCATCGGCACTGT	CCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGC		4377
Query	4378		TCGCCACTGCTACCCCTCCG	GGCTCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTG		4437
Sbjct	4378		TCGCCACTGCTACCCCTCCG	GGCTCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTG		4437
Query	4438		CTCTGTCCACCACCGGAGAG	ATCCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC		4496

Sbjct	4438	 CTCTGTCCACCACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Query	4497	 AAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Sbjct	4497	 AAGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Query	4557	 AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4616
Sbjct	4557	 AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4616
Query	4617	 ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	 ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677	 GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGC	4736
Sbjct	4677	 GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGC	4736
Query	4737	 CTTGACCCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	 CTTGACCCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Query	4797	 CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG	4856
Sbjct	4797	 CAGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4856
Query	4857	 GAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857	 GAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917	 GCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Sbjct	4917	 GCTTGGTATGAGCTCATGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	 CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Sbjct	4977	 CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Query	5037	 ACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTAC	5096
Sbjct	5037	 ACCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTAC	5096
Query	5097	 CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGAC	5156
Sbjct	5097	 CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGAC	5156
Query	5157	 CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	 CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	 TACAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Sbjct	5217	 TACAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Query	5277	 ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Sbjct	5277	 ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Query	5337	 GTCCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Sbjct	5337	 GTCCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Query	5397	 ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTC	5456
Sbjct	5397	 ATTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTC	5456
Query	5457	 GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Sbjct	5457	 GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Query	5517	 GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Sbjct	5517	 GAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Query	5577	 ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATG	5636

Sbjct	5577	 ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATG	5636
Query	5637	TGGAATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCC	5696
Sbjct	5637	 TGGAATTTTCATCAGTGGGATAACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCC	5696
Query	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAA	5756
Sbjct	5697	 GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAA	5756
Query	5757	ACCCTCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCC	5816
Sbjct	5757	 ACCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCC	5816
Query	5817	GCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG	5876
Sbjct	5817	 GCTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG	5876
Query	5877	AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Sbjct	5877	 AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Query	5937	TTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCC	5996
Sbjct	5937	 TTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCC	5996
Query	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Sbjct	5997	 ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Query	6057	GTTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGG	6116
Sbjct	6057	 GTTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGG	6116
Query	6117	GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACT	6176
Sbjct	6117	 GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACT	6176
Query	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC	6236
Sbjct	6177	 GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC	6236
Query	6237	TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Sbjct	6237	 TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Query	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Sbjct	6297	 GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Query	6357	ATTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Sbjct	6357	 ATTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	 ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCTTCCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	 ACCACGGGCCCCCTGTACTCCCTTCCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATG	6656
Sbjct	6597	 TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATG	6656
Query	6657	ACTACTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTG	6716
Sbjct	6657	 ACTACTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTG	6716
Query	6717	GACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTA	6776

Sbjct	6717	GACGGGGTGC	6776
Query	6777	TCATTTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCCGAA	6836
Sbjct	6777	TCATTTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCCGAA	6836
Query	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCG	6896
Sbjct	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCG	6896
Query	6897	GCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAG	6956
Sbjct	6897	GCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAG	6956
Query	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCGAG	7016
Sbjct	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCGAG	7016
Query	7017	CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAG	7076
Sbjct	7017	CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAG	7076
Query	7077	TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Sbjct	7077	TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Query	7137	CGGGAGGTCTCCGTACCTGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTG	7196
Sbjct	7137	CGGGAGGTCTCCGTACCCGCAGAAATTCGCGGAAGTCTCGGAGATTGCCCCGGGCCCTG	7196
Query	7197	CCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Sbjct	7197	CCCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Query	7257	TACGAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCT	7316
Sbjct	7257	TACGAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCT	7316
Query	7317	CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCC	7376
Sbjct	7317	CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTACTGCCTTGGCC	7376
Query	7377	GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG	7436
Sbjct	7377	GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATG	7436
Query	7437	ACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTAT	7496
Sbjct	7437	ACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTAT	7496
Query	7497	TCTTCCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGG	7556
Sbjct	7497	TCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTTACGCGACGGGTCATGG	7556
Query	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7616
Sbjct	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC	7616
Query	7617	TGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCA	7676
Sbjct	7617	TGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCA	7676
Query	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCT	7736
Sbjct	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCT	7736
Query	7737	TGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAG	7796
Sbjct	7737	TGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAG	7796
Query	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Query	7857	GAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCA	7916

Sbjct	7857		GAGGAAGCTTGCAGCCTGACGCCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Query	7917		AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGAC	7976
Sbjct	7917		AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGAC	7976
Query	7977		CTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTTC	8036
Sbjct	7977		CTTCTGGAAGACAGTGTAAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTC	8036
Query	8037		TGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTG	8096
Sbjct	8037		TGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTG	8096
Query	8097		GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCC	8156
Sbjct	8097		GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCC	8156
Query	8157		GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTG	8216
Sbjct	8157		GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTG	8216
Query	8217		CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8276
Sbjct	8217		CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGAC	8276
Query	8277		TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277		TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Query	8337		GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Sbjct	8337		GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Query	8397		CTTACCAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGGAGCGGCGTACTG	8456
Sbjct	8397		CTTACCAATTCAAGGGGGGAAAACGCGGCTATCGCAGGTGCCGCGGAGCGGCGTACTG	8456
Query	8457		ACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCC	8516
Sbjct	8457		ACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCC	8516
Query	8517		GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Sbjct	8517		GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Query	8577		AGTGC GGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGG	8636
Sbjct	8577		AGTGC GGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGG	8636
Query	8637		TACTCCGccccccccggggccccccACAACCAGAATACGACTTGGAGCTTATAACATCA	8696
Sbjct	8637		TACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCA	8696
Query	8697		TGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACC	8756
Sbjct	8697		TGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACC	8756
Query	8757		CGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Sbjct	8757		CGTGACCTTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Query	8817		AATTCTTGCTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTG	8876
Sbjct	8817		AATTCTTGCTAGGCAACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTG	8876
Query	8877		ATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGT	8936
Sbjct	8877		ATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGT	8936
Query	8937		GAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTTCAAAGA	8996
Sbjct	8937		GAGATCTACGCAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTTCAAAGA	8996
Query	8997		CTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTG	9056

Sbjct	8997	CTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTG	9056
Query	9057	GCCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCCGG	9116
Sbjct	9057	GCCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCCGG	9116
Query	9117	AGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTC	9176
Sbjct	9117	AGCGTCCGCGCTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTC	9176
Query	9177	TTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTG	9236
Sbjct	9177	TTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTG	9236
Query	9237	GACTTGTCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCT	9296
Sbjct	9237	GACTTGTCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCT	9296
Query	9297	CATGCCCGGCCCGCTGGTTCTGGTTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATC	9356
Sbjct	9297	CATGCCCGGCCCGCTGGTTCTGGTTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATC	9356
Query	9357	TACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC-	9415
Sbjct	9357	TACCTCCTCCCCAACCGGTGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCCC	9416
Query	9416	TG ----- -----	9461
Sbjct	9417	TTTTTTTTTTTTTTTTTTTTTTTTTCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9476
Query	9462	-----cggp-cctt cggpctt -----cggpcttAATGGTGGCTCCATC	9513
Sbjct	9477	TTTTTCCTTTTCTCTTTTTTCCCTTCTCTTCTCCTCCCTTCTTTAATGGTGGCTCCATC	9536
Query	9514	TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT	9573
Sbjct	9537	TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT	9596
Query	9574	GATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9597	GATACTGGCCTCTCTGCAGATCATGT	9622

>dbj|DD070077.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=9622

Score = 1.713e+04 bits (9277), Expect = 0.0
Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT	59
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT	59
Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Query	120	cggpcttCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	GGACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	239
Sbjct	180	GGACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Query	360	CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGT	419

Sbjct	360		419
Query	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Query	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Sbjct	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Sbjct	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Query	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900	GTGCCCCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900	GTGCCCCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960	TGCCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960	TGCCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080	GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140	GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319	GTCCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	GTCCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGG	1558

Sbjct	1499	 CGTCACCGGGGGAAGTGCCGGCCACACCACGGCTGGGCTTGTGTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	 CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAACCTGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAGCGGCCTTGACGAACGCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCATCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCATCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459	GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459	GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698

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Sbjct 2639 GTCCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC 2698
Query 2699 GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG 2758
Sbjct 2699 GGTCTACGCCCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG 2758
Query 2759 GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT 2818
Sbjct 2759 GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT 2818
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Sbjct 2819 AATGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT 2878
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Sbjct 2879 TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAACGT 2938
Query 2939 CCgccccccCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATT 2998
Sbjct 2939 CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT 2998
Query 2999 TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
Sbjct 2999 TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT 3058
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Sbjct 3059 GTTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG 3118
Query 3119 GAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG 3177
Sbjct 3119 GAAGATGA-CCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTG 3177
Query 3178 GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAG 3237
Sbjct 3178 GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAG 3237
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Query 3298 GGGGGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTA 3357
Sbjct 3298 GGGGGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTA 3357
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Sbjct 3418 TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCA 3477
Query 3478 GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA 3537
Sbjct 3478 GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA 3537
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Sbjct 3538 CCCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG 3597
Query 3598 GAACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATAACCAATGTGGACC 3657
Sbjct 3598 GAACGAGGACCATCGCATCACCAAGGGTCTGTATCCAGATGTATAACCAATGTGGACC 3657
Query 3658 AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG 3717
Sbjct 3658 AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG 3717
Query 3718 GTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG 3777
Sbjct 3718 GTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG 3777
Query 3778 GTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGG 3837
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Sbjct	3778		GTGATAGCAGGGGTAGCCTGCTTTTGCCCCGGGCCATTTTCCTACCTAAAAGGCTCCTCGG	3837
Query	3838		GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA	3897
Sbjct	3838		GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA	3897
Query	3898		CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898		CCCGTGGAGTGGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958		GATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Sbjct	3958		GATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Query	4018		CCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4077
Sbjct	4018		CCCACCTGCATGCTCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4077
Query	4078		CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Sbjct	4078		CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Query	4138		CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Sbjct	4138		CTTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Query	4198		CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Sbjct	4198		CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Query	4258		CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Sbjct	4258		CAGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318		TCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGC	4377
Sbjct	4318		TCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGC	4377
Query	4378		TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Sbjct	4378		TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Query	4438		CTCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Sbjct	4438		CTCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Query	4497		AAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Sbjct	4497		AAGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Query	4557		AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4616
Sbjct	4557		AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4616
Query	4617		ATCCCGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617		ATCCCGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677		GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGC	4736
Sbjct	4677		GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGC	4736
Query	4737		CTTGACCTTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737		CTTGACCTTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Query	4797		CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG	4856
Sbjct	4797		CAGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4856
Query	4857		GAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857		GAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917		GCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976

Sbjct	4917	GCTTGGTATGAGCTCATGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	CCGGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGGCTC	5036
Sbjct	4977	CCGGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGGCTC	5036
Query	5037	ACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Sbjct	5037	ACCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Query	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGAC	5156
Sbjct	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGAC	5156
Query	5157	CAGATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTGTTGATCCGCCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	TACAGACTGGGCGCTGTTTCAAGTGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Sbjct	5217	TACAGACTGGGCGCTGTTTCAAGTGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Query	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Sbjct	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
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Query	5877	AAGGTCCTCGTGGACATTCTTG CAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTG TAGCA	5936
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Query	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
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Sbjct	6117	GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACT	6176
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Sbjct	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC	6236
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Sbjct	6237	TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
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Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
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Query	6777	TCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAA	6836
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Sbjct	7197	T T G G G C G C G G C G G A C T A C A A C C C C C G C T A G T A G A G A C G T G G A A A A A G C C T G A C	7256
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Sbjct	9477	T T T T T C C T T T T C C T T C T T T T T C C C T T T C T T C C T C C C T T C T T T A A T G G T G G C T C C A T C	9536
Query	9514	T T A G C C C T A G T C A C G G C T A G C T G T G A A A G G T C C G T G A G C C G C A T G A C T G C A G A G A G T G C T	9573
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Sbjct	9597	G A T A C T G G C C T C T C T G C A G A T C A T G T	9622

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Score = 1.713e+04 bits (9277), Expect = 0.0
Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus

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Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038

Sbjct	1979		GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039		GCCCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039		GCCCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099		CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099		CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159		GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159		GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTTGCT	2338
Query	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399		CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399		CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639		GTCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639		GTCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Query	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Query	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT	2938
Query	2939		CCgggggggCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939		CCGGGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998
Query	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		GTTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119		GAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177

Sbjct	3119	GAAGATGA-CCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTG	3177
Query	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3237
Sbjct	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3237
Query	3238	ATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGT	3297
Sbjct	3238	ATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGT	3297
Query	3298	GGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Sbjct	3298	GGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Query	3358	GGGGCCAGGAGATACTGCTTGGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Sbjct	3358	GGGGCCAGGAGATACTGCTTGGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Query	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA	3477
Sbjct	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCA	3477
Query	3478	GCCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478	GCCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Query	3538	CCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Sbjct	3538	CCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Query	3598	GAACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACC	3657
Sbjct	3598	GAACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACC	3657
Query	3658	AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGTCAATTGACACCCTGTACCTGCG	3717
Sbjct	3658	AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGTCAATTGACACCCTGTACCTGCG	3717
Query	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG	3777
Sbjct	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGG	3837
Sbjct	3778	GTGATAGCAGGGGTAGCCTGCTTTGCCCCGGCCATTTCCTACCTAAAAGGCTCCTCGG	3837
Query	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCA	3897
Sbjct	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCA	3897
Query	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898	CCCGTGGAGTGGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958	GATCCCCGGTGTTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Sbjct	3958	GATCCCCGGTGTTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Query	4018	CCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4077
Sbjct	4018	CCCACCTGCATGCTCCCACCGGCAGTGGAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4077
Query	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Sbjct	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Query	4138	CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Sbjct	4138	CTTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Query	4198	CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Sbjct	4198	CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Query	4258	CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317

Sbjct	4258	 CAGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGC	4377
Sbjct	4318	 TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGC	4377
Query	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Sbjct	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Sbjct	4438	CTCTGTCCACCACCGGAGAGATCCC- TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Query	4497	AAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCG	4556
Sbjct	4497	AAGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCACGAGCTCGCCGCG	4556
Query	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4616
Sbjct	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4616
Query	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGC	4736
Sbjct	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGC	4736
Query	4737	CTTGACCTTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	CTTGACCTTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Query	4797	CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG	4856
Sbjct	4797	CAGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4856
Query	4857	GAGCGCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857	GAGCGCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917	GCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Sbjct	4917	GCTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTC	5036
Sbjct	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTC	5036
Query	5037	ACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Sbjct	5037	ACCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Query	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGAC	5156
Sbjct	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGAC	5156
Query	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	TACAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Sbjct	5217	TACAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Query	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Sbjct	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Query	5337	GTCCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGG	5396
Sbjct	5337	GTCCTGGCTGCTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGG	5396
Query	5397	ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTC	5456

Sbjct	5397		ATTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTC	5456
Query	5457		GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Sbjct	5457		GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Query	5517		GAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Sbjct	5517		GAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Query	5577		ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATG	5636
Sbjct	5577		ATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATG	5636
Query	5637		TGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCC	5696
Sbjct	5637		TGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCC	5696
Query	5697		GCCATTGCTTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAA	5756
Sbjct	5697		GCCATTGCTTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAA	5756
Query	5757		ACCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCC	5816
Sbjct	5757		ACCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCC	5816
Query	5817		GCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG	5876
Sbjct	5817		GCTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGG	5876
Query	5877		AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Sbjct	5877		AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Query	5937		TTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCC	5996
Sbjct	5937		TTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCC	5996
Query	5997		ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Sbjct	5997		ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Query	6057		GTTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGG	6116
Sbjct	6057		GTTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGG	6116
Query	6117		GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACT	6176
Sbjct	6117		GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACT	6176
Query	6177		GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC	6236
Sbjct	6177		GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGC	6236
Query	6237		TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Sbjct	6237		TCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Query	6297		GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Sbjct	6297		GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGG	6356
Query	6357		ATTCCCTTTGTGTCTTCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Sbjct	6357		ATTCCCTTTGTGTCTTCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Query	6417		CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417		CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477		ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477		ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Query	6537		ACCACGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596

Sbjct	6537		ACCACGGGCCCCCTGTACTCCCCTTCCTGCGCCGA	ACTATAAGTTCGCGCTGTGGAGGGTG	6596
Query	6597		TCTGCAGAGGAATACGTGGAGATAAAGCGGGTGGGGG	ACTTCCACTACGTATCGGGTATG	6656
Sbjct	6597		TCTGCAGAGGAATACGTGGAGATAAAGCGGGTGGGGG	ACTTCCACTACGTATCGGGTATG	6656
Query	6657		ACTACTGACAATCTTAAATGCCCCGTGCCAGATCCC	ATCGCCCCGAATTTTTCACAGAATTG	6716
Sbjct	6657		ACTACTGACAATCTTAAATGCCCCGTGCCAGATCCC	ATCGCCCCGAATTTTTCACAGAATTG	6716
Query	6717		GACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	CAAGCCCTTGCTGCGGGAGGAGGTA	6776
Sbjct	6717		GACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTG	CAAGCCCTTGCTGCGGGAGGAGGTA	6776
Query	6777		TCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGG	TCGCAATTACCTTGCGAGCCCGAA	6836
Sbjct	6777		TCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGG	TCGCAATTACCTTGCGAGCCCGAA	6836
Query	6837		CCGGACGTAGCCGTGTTGACGTCCATGCTCACTG	ATCCCTCCCATATAACAGCAGAGGCG	6896
Sbjct	6837		CCGGACGTAGCCGTGTTGACGTCCATGCTCACTG	ATCCCTCCCATATAACAGCAGAGGCG	6896
Query	6897		GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCT	ATGGCCAGCTCCTCGGCTAGCCAG	6956
Sbjct	6897		GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCT	ATGGCCAGCTCCTCGGCCAGCCAG	6956
Query	6957		CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCG	CCAACCATGACTCCCCTGACGCCGAG	7016
Sbjct	6957		CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCG	CCAACCATGACTCCCCTGACGCCGAG	7016
Query	7017		CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAG	ATGGGCGGCAACATCACCAGGGTTGAG	7076
Sbjct	7017		CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAG	ATGGGCGGCAACATCACCAGGGTTGAG	7076
Query	7077		TCAGAGAACAAAGTGGTGATTCTGGACTCCTTC	GATCCGCTTGTTGGCAGAGGAGGATGAG	7136
Sbjct	7077		TCAGAGAACAAAGTGGTGATTCTGGACTCCTTC	GATCCGCTTGTTGGCAGAGGAGGATGAG	7136
Query	7137		CGGGAGGTCTCCGTACCTGCAGAAATTCGCGGA	AGTCTCGGAGATTCGCCCCGGGCCCTG	7196
Sbjct	7137		CGGGAGGTCTCCGTACCCGCAGAAATTCGCGGA	AGTCTCGGAGATTCGCCCCGGGCCCTG	7196
Query	7197		CCCGTCTGGGCGCGGCCGGACTACAACCCCCCG	CTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Sbjct	7197		CCCGTTTGGGCGCGGCCGGACTACAACCCCCCG	CTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Query	7257		TACGAACCACCTGTGGTCCATGGCTGCCCCGCT	TACCACCTCCACGGTCCCCCTCCTGTGCCT	7316
Sbjct	7257		TACGAACCACCTGTGGTCCATGGCTGCCCCGCT	TACCACCTCCACGGTCCCCCTCCTGTGCCT	7316
Query	7317		CCGCCTCGGAAAAAGCGTACGGTGGTCC	TCACCGAATCAACCCTATCTACTGCCTTG	7376
Sbjct	7317		CCGCCTCGGAAAAAGCGTACGGTGGTCC	TCACCGAATCAACCCTACCTACTGCCTTG	7376
Query	7377		GAGCTTGCCACCAAAAGTTTTTGGCAGCTCCT	CAACTTCCGGCATTACGGGCGACAATACG	7436
Sbjct	7377		GAGCTTGCCACCAAAAGTTTTTGGCAGCTCCT	CAACTTCCGGCATTACGGGCGACAATATG	7436
Query	7437		ACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	GGGGGGGACTCCGACGTTGAGTCCTAT	7496
Sbjct	7437		ACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	GGGGGGGACTCCGACGTTGAGTCCTAT	7496
Query	7497		TCTTCCATG	GGGGGGGTTGGAGGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGG	7556
Sbjct	7497		TCTTCCATG	GGGGGGGTTGGAGGGGGGAGCCTGGGGATCCGGATTTTCAGCGACGGGTCATGG	7556
Query	7557		TCGACGGTCAGTAGTGGGGCCGACACGGAAGAT	GTTCGTGTGCTGCTCAATGTCTTATTCC	7616
Sbjct	7557		TCGACGGTCAGTAGTGGGGCCGACACGGAAGAT	GTTCGTGTGCTGCTCAATGTCTTATACC	7616
Query	7617		TGGACAGGCGCACTCGTCACCCCGTGC	GCTGCGGAAGAACAAAACTGCCCATCAACGCA	7676
Sbjct	7617		TGGACAGGCGCACTCGTCACCCCGTGC	GCTGCGGAAGAACAAAACTGCCCATCAACGCA	7676
Query	7677		CTGAGCAACTCGTTGCTACGCCATCACAATCT	GGTGTATTCCACCACTTCACGCAGTGCT	7736

Sbjct	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCT	7736
Query	7737	TGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAG	7796
Sbjct	7737	TGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAG	7796
Query	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Query	7857	GAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Sbjct	7857	GAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Query	7917	AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGAC	7976
Sbjct	7917	AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGAC	7976
Query	7977	CTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTTC	8036
Sbjct	7977	CTTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGCTCTTC	8036
Query	8037	TGCGTTTACGCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTG	8096
Sbjct	8037	TGCGTTTACGCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTG	8096
Query	8097	GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCCTGGCC	8156
Sbjct	8097	GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCCTGGCC	8156
Query	8157	GTGATGGGAAGCTCCTACGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTG	8216
Sbjct	8157	GTGATGGGAAGCTCCTACGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTG	8216
Query	8217	CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8276
Sbjct	8217	CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGAC	8276
Query	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Query	8337	GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Sbjct	8337	GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Query	8397	CTTACCAATTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGGCGTACTG	8456
Sbjct	8397	CTTACCAATTCAAGGGGGGAAAACATGCGGCTATCGCAGGTGCCGCGCAGCGGGCGTACTG	8456
Query	8457	ACAACCTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCGTGTCGAGCC	8516
Sbjct	8457	ACAACCTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTTCGAGCC	8516
Query	8517	GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Sbjct	8517	GCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Query	8577	AGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGG	8636
Sbjct	8577	AGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGG	8636
Query	8637	TACTCCGccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCA	8696
Sbjct	8637	TACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCA	8696
Query	8697	TGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACC	8756
Sbjct	8697	TGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACC	8756
Query	8757	CGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Sbjct	8757	CGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Query	8817	AATTCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTG	8876


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Sbjct 8817  |||||||AATTCCTGGCTAGGCAACATAATCATGTTTGTGCCCCACACTGTGGGCGAGGATGATACTG 8876
Query 8877  ATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGT 8936
Sbjct 8877  ATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGT 8936
Query 8937  GAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGA 8996
Sbjct 8937  GAGATCTACGCAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGA 8996
Query 8997  CTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTG 9056
Sbjct 8997  CTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTG 9056
Query 9057  GCCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCCG 9116
Sbjct 9057  GCCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCCG 9116
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Sbjct 9117  AGCGTCCGCGCTAGGCTTCTGTCCAGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTC 9176
Query 9177  TTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTG 9236
Sbjct 9177  TTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTG 9236
Query 9237  GACTTGTCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCT 9296
Sbjct 9237  GACTTGTCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCT 9296
Query 9297  CATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATC 9356
Sbjct 9297  CATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATC 9356
Query 9357  TACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC- 9415
Sbjct 9357  TACCTCCTCCCCAACCGGTGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCCC 9416
Query 9416  TG----- 9461
Sbjct 9417  TTTTTTTTTTTTTTTTTTTTTTCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9476
Query 9462  -----ccttt--cctcttttttctttttttt--cccttttttAATGGTGGCTCCATC 9513
Sbjct 9477  TTTTTCCTTTTTCCTTCTTTTTTCCCTTTCTCTTCCCTCCCTTCTTTAATGGTGGCTCCATC 9536
Query 9514  TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT 9573
Sbjct 9537  TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT 9596
Query 9574  GATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct 9597  GATACTGGCCTCTCTGCAGATCATGT 9622
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>dbj|DL487761.1| FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF
Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT 59
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT 59
Query 60 GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119
Sbjct 60 GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119
Query 120 cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Sbjct 120 CCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Query 180 GGACGACCGGGTCCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 239
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Sbjct	180		GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTG	239
Query	240		CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240		CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300		GGTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Sbjct	300		GGTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Query	360		CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGT	419
Sbjct	360		CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGT	419
Query	420		GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420		GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480		CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480		CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Query	540		AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Sbjct	540		AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Query	600		GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Sbjct	600		GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Query	660		TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Sbjct	660		TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Query	720		ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Sbjct	720		ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Query	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Sbjct	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Query	840		GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840		GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900		GTGCCCCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900		GTGCCCCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960		TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960		TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080		GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080		GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140		GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140		GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Query	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259		TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259		TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319		GTCCCTTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378

Sbjct	1319		GTCCCC	TACGGC	AGCGTT	GGTGGT	AGCTC	AGCTG	CTCCG	GATCCC	ACAAGC	CATCAT	GGA	1378
Query	1379		CATGAT	CGCTG	GTGCTC	ACTGGG	GAGTC	CTGGC	GGGCAT	AGCGT	ATTTCT	CCATGG	TGGG	1438
Sbjct	1379		CATGAT	CGCTG	GTGCTC	ACTGGG	GAGTC	CTGGC	GGGCAT	AGCGT	ATTTCT	CCATGG	TGGG	1438
Query	1439		GAACTG	GGGCGA	AGGTC	CTGGT	AGTG	CTGCT	GCTAT	TTGCC	GGCGT	CGACG	CGGAA	1498
Sbjct	1439		GAACTG	GGGCGA	AGGTC	CTGGT	AGTG	CTGCT	GCTAT	TTGCC	GGCGT	CGACG	CGGAA	1498
Query	1499		CGTCAC	CGGGGG	AAATG	CCGGC	CGCACC	ACGGC	TGGG	CTTGT	TGGTCT	CTTAC	ACCAGG	1558
Sbjct	1499		CGTCAC	CGGGGG	AAATG	CCGGC	CGCACC	ACGGC	TGGG	CTTGT	TGGTCT	CTTAC	ACCAGG	1558
Query	1559		CGCCA	AGCAGA	AACAT	CCAAC	TGATCA	ACACCA	ACGGC	AGTTGG	CACATCA	ATAGC	ACGGC	1618
Sbjct	1559		CGCCA	AGCAGA	AACAT	CCAAC	TGATCA	ACACCA	ACGGC	AGTTGG	CACATCA	ATAGC	ACGGC	1618
Query	1619		CTTGA	ATTGCA	ATGAA	AGCCTT	AACACC	GGCTGG	TTAGC	AGGGC	TCTTCT	ATCAAC	ACAA	1678
Sbjct	1619		CTTGA	ACTGCA	ACGAT	AGCCTT	ACCACC	GGCTGG	TTAGC	AGGGC	TCTTCT	ATCGCC	ACAA	1678
Query	1679		ATTCA	ACTCTT	CAGGCT	GTCTG	AGAGGT	TGGCC	AGCTGCC	GACGC	CTTAC	CGATTT	TGC	1738
Sbjct	1679		ATTCA	ACTCTT	CAGGCT	GTCTG	AGAGGT	TGGCC	AGCTGCC	GACGC	CTTAC	CGATTT	TGC	1738
Query	1739		CCAGGG	CTGGGG	TCCAT	CAGTT	ATGCCA	ACGGA	AGCGC	CTCGA	CGAACG	CCCCT	ACTG	1798
Sbjct	1739		CCAGGG	CTGGGG	TCCAT	CAGTT	ATGCCA	ACGGA	AGCGC	CTTGAC	CGAACG	CCCCT	ACTG	1798
Query	1799		CTGGC	ACTACC	CTCCA	AGACCT	TGTGG	CATTGT	GCCCG	CAAAG	AGCGT	GTGTG	GGCCCG	1858
Sbjct	1799		TTGGC	ACTACC	CTCCA	AGACCT	TGTGG	CATTGT	GCCCG	CAAAG	AGCGT	GTGTG	GGCCCG	1858
Query	1859		ATATT	GCTTCA	CTCCC	AGCCCC	GTGGT	GGTGGG	AACGAC	CGAC	AGGTC	GGGCG	CGCCT	1918
Sbjct	1859		ATATT	GCTTCA	CTCCC	AGCCCC	GTGGT	GGTGGG	AACGAC	CGAC	AGGTC	GGGCG	CGCCT	1918
Query	1919		CTAC	AGCTGG	GGTG	CAAATG	ATACG	GATGT	CTTC	GTCTT	AACAAC	ACCAGG	CCACCG	1978
Sbjct	1919		CTAC	AGCTGG	GGTG	CAAATG	ATACG	GATGT	CTTC	GTCTT	AACAAC	ACCAGG	CCACCG	1978
Query	1979		GGGCA	ATTGGT	TCGGT	TGTAC	CTGG	ATGAA	CTCA	ACTGG	ATTCA	CCAA	AGTGTG	2038
Sbjct	1979		GGGCA	ATTGGT	TCGGT	TGTAC	CTGG	ATGAA	CTCA	ACTGG	ATTCA	CCAA	AGTGTG	2038
Query	2039		GCCCC	CTTGT	GTCAT	CGGAG	GGGTGGG	CAACA	ACAC	CTTG	CTG	CCCCA	CTGATT	2098
Sbjct	2039		GCCCC	CTTGT	GTCAT	CGGAG	GGGTGGG	CAACA	ACAC	CTTG	CTG	CCCCA	CTGATT	2098
Query	2099		CCGCA	AACATC	CGGA	AGCCAC	ATACT	CTCGG	TGCGG	CTCCG	TCCCTG	GATTAC	ACCCAG	2158
Sbjct	2099		CCGCA	AACATC	CGGA	AGCCAC	ATACT	CTCGG	TGCGG	CTCCG	TCCCTG	GATTAC	ACCCAG	2158
Query	2159		GTGC	ATGGT	CGACT	ACCCG	TATAG	GCTTT	TGGC	ACTAT	CCTTGT	ACCAT	CAATTAC	2218
Sbjct	2159		GTGC	ATGGT	CGACT	ACCCG	TATAG	GCTTT	TGGC	ACTAT	CCTTGT	ACCAT	CAATTAC	2218
Query	2219		ATTCA	AAAGT	CAGG	ATGTAC	GTGGG	AGGGG	TCGAG	CACAGG	CTGGA	AGCGG	CGCTG	2278
Sbjct	2219		ATTCA	AAAGT	CAGG	ATGTAC	GTGGG	AGGGG	TCGAG	CACAGG	CTGGA	AGCGG	CGCTG	2278
Query	2279		GACG	CGGGG	GCGAAC	GCTGT	GATCT	GGAAG	ACAGG	GACAGG	TCCG	AGCTC	AGCCC	2338
Sbjct	2279		GACG	CGGGG	GCGAAC	GCTGT	GATCT	GGAAG	ACAGG	GACAGG	TCCG	AGCTC	AGCCC	2338
Query	2339		GCTGT	CCACC	ACAC	AGTGG	CAGG	TCCTT	CCGTG	TTCTT	TCACG	ACCCTG	CCAGC	2398
Sbjct	2339		GCTGT	CCACC	ACAC	AGTGG	CAGG	TCCTT	CCGTG	TTCTT	TCACG	ACCCTG	CCAGC	2398
Query	2399		CACCG	GCCTC	ATCC	ACCTC	CACC	AGAAC	ATTGT	GACGTG	CAGT	ACTTGT	ACGGG	2458
Sbjct	2399		CACCG	GCCTC	ATCC	ACCTC	CACC	AGAAC	ATTGT	GACGTG	CAGT	ACTTGT	ACGGG	2458
Query	2459		GTCA	AGCAT	CGCG	TCTT	GGGCC	ATTA	AGTGGG	AGTAC	GTCGT	TCTC	TGTTCT	2518

Sbjct	2459		GTCAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
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Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Query	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAACGT	2938
Query	2939		CCCGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCTGGTATT	2998
Sbjct	2939		CCCGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998
Query	2999		TGACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Query	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Query	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299		GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299		GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Query	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479		CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539		CCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		CCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599		AACGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA	3658

Sbjct	3599		AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Query	3659		AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659		AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719		CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719		CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779		TGATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		TGATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTAAAAGGCTCCTCGGG	3838
Query	3839		GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839		GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
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Sbjct	3899		CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959		ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959		ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019		CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019		CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079		CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079		CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139		TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139		TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199		CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199		CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259		AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259		AGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319		CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319		CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT	4378
Query	4379		CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379		CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439		TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439		TCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
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Sbjct	4618		TCCCGACCAACGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
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Sbjct	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCC	4737
Query	4738		TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797

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Sbjct  4798  AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGG 4857
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Query  4978  CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA 5037
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Sbjct  4978  CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA 5037
Query  5038  CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC 5097
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Sbjct  5038  CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC 5097
Query  5098  TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACC 5157
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Sbjct  5098  TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACC 5157
Query  5158  AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217
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Sbjct  5158  AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217
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Sbjct  5218  ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCA 5277
Query  5278  TGACATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCG 5337
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Query  5338  TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA 5397
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Sbjct  5758  CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG 5817
Query  5818  CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
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Sbjct  5818  CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Query  5878  AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
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Sbjct	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
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Sbjct	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Query	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACG	6057
Sbjct	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACG	6057
Query	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118		GGAACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118		GGAACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Query	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
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Sbjct	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
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Sbjct	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGA	6357
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Sbjct	6358		TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
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Sbjct	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
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Sbjct	6478		TCGTGCGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
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Sbjct	6538		CCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
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Sbjct	6598		CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
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Query	6718		ACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718		ACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
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Sbjct	6778		CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
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Sbjct	6838		CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Query	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
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Sbjct	6958		TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCCTGACGCCGAGC	7017
Query	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077

Sbjct	7018	 TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
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Sbjct	7138	 GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
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Sbjct  9298  |||||||||||||||||||TCTGGTTTTCGCTACTCCTGCTCGCTGCAGGGGTAGGCATCT 9357
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Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAAGT	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAAGT	1318
Query	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAACATCCAACATGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAATTGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTTGACGAACGCCCCACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098

Sbjct	2039		GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099		CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099		CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159		GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159		GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219		ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339		GCTGTCCACCACACAGTGGCAGGTCCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339		GCTGTCCACCACACAGTGGCAGGTCCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399		CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399		CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTTGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639		GTCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639		GTCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Query	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT	2938
Query	2939		CCgggggggCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939		CCGGGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998
Query	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTGG	3178
Query	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238

Sbjct	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Query	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299		GGGGGCAGATAACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299		GGGGGCAGATAACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Query	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479		CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539		CCAAACCTTCCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		CCAAACCTTCCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599		AACGAGGACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATAACCAATGTGGACCA	3658
Sbjct	3599		AACGAGGACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATAACCAATGTGGACCA	3658
Query	3659		AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659		AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Query	3719		CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719		CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779		TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTAAAGGCTCCTCGGG	3838
Query	3839		GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839		GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Query	3899		CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCCTAGGGACAACCATGAG	3958
Sbjct	3899		CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCCTAGAGACAACCATGAG	3958
Query	3959		ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959		ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019		CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019		CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079		CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079		CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139		TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139		TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199		CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199		CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259		AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259		AGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319		CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378

Sbjct	4319		CTTGGGCATCGGCAC	TGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT	4378
Query	4379		CGCCACTGCTACCCCTCCGGGCTCCGTC	ACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379		CGCCACTGCTACCCCTCCGGGCTCCGTC	ACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439		TCTGTCCACCACCGGAGAGATCCCCTTT	-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439		TCTGTCCACCACCGGAGAGATCCC	-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498		AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGC	GACGAGCTCGCCGCGA	4557
Sbjct	4498		AGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGC	GACGAGCTCGCCGCGA	4557
Query	4558		AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA		4617
Sbjct	4558		AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCA		4617
Query	4618		TCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG		4677
Sbjct	4618		TCCCGACCAACGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG		4677
Query	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCC		4737
Sbjct	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCC		4737
Query	4738		TTGACCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC		4797
Sbjct	4738		TTGACCCTACCTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC		4797
Query	4798		AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	GGGGG	4857
Sbjct	4798		AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACC	GGGGG	4857
Query	4858		AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG		4917
Sbjct	4858		AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG		4917
Query	4918		CTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC		4977
Sbjct	4918		CTTGGTATGAGCTCATGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC		4977
Query	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA		5037
Sbjct	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA		5037
Query	5038		CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACC		5097
Sbjct	5038		CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACC		5097
Query	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACC		5157
Sbjct	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACC		5157
Query	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCCAACACCCCTGCTAT		5217
Sbjct	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCCAACACCCCTGCTAT		5217
Query	5218		ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACC	AAATACATCA	5277
Sbjct	5218		ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACC	AAATACATCA	5277
Query	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG		5337
Sbjct	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG		5337
Query	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA		5397
Sbjct	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA		5397
Query	5398		TCGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG		5457
Sbjct	5398		TTGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG		5457
Query	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG		5517

Sbjct	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Query	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Query	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGT	5637
Query	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638		GGAATTTTCATCAGTGGGATACAATAATTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Query	5758		CCCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758		CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818		CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818		CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Sbjct	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Query	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Query	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118		GGAACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118		GGAACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Query	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGA	6357
Sbjct	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGA	6357
Query	6358		TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358		TTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478		TCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478		TCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Query	6538		CCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538		CCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGT	6597
Query	6598		CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657

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Sbjct  6598  |||||CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA 6657
Query  6658  CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG 6717
Sbjct  6658  CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG 6717
Query  6718  ACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT 6777
Sbjct  6718  ACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT 6777
Query  6778  CATTGAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC 6837
Sbjct  6778  CATTGAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC 6837
Query  6838  CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG 6897
Sbjct  6838  CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG 6897
Query  6898  CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC 6957
Sbjct  6898  CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGC 6957
Query  6958  TGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGC 7017
Sbjct  6958  TGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGC 7017
Query  7018  TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT 7077
Sbjct  7018  TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT 7077
Query  7078  CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGC 7137
Sbjct  7078  CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGC 7137
Query  7138  GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC 7197
Sbjct  7138  GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC 7197
Query  7198  CCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT 7257
Sbjct  7198  CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT 7257
Query  7258  ACGAACCACCTGTGGTCCATGGCTGCCCCTACCACTCCACGGTCCCCCTCCTGTGCCTC 7317
Sbjct  7258  ACGAACCACCTGTGGTCCATGGCTGCCCCTACCACTCCACGGTCCCCCTCCTGTGCCTC 7317
Query  7318  CGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCG 7377
Sbjct  7318  CGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTACCTACTGCCTTGGCCG 7377
Query  7378  AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA 7437
Sbjct  7378  AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGA 7437
Query  7438  CAACATCCTCTGAGCCCGCCCCCTTCTGGCTG?????GACTCCGACGTTGAGTCCTATT 7497
Sbjct  7438  CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATT 7497
Query  7498  CTTCCATG?????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT 7557
Sbjct  7498  CTTCCATGCCCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTTACGCGACGGGTCATGGT 7557
Query  7558  CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCT 7617
Sbjct  7558  CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT 7617
Query  7618  GGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCAC 7677
Sbjct  7618  GGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCAC 7677
Query  7678  TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTT 7737
Sbjct  7678  TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTT 7737
Query  7738  GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG 7797
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Sbjct 7738 GCCAAAGGCAGAAAGTACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG 7797
Query 7798 ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG 7857
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Sbjct 7798 ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG 7857
Query 7858 AGGAAGCTTGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA 7917
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Sbjct 7858 AGGAAGCTTGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA 7917
Query 7918 AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACC 7977
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Sbjct 7918 AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACC 7977
Query 7978 TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTTCT 8037
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Sbjct 7978 TTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTTTCT 8037
Query 8038 GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG 8097
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Sbjct 8038 GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG 8097
Query 8098 GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCG 8157
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Sbjct 8098 GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCG 8157
Query 8158 TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTC 8217
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Sbjct 8158 TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTC 8217
Query 8218 AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACT 8277
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Sbjct 8218 AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACT 8277
Query 8278 CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG 8337
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Sbjct 8278 CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG 8337
Query 8338 ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC 8397
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Sbjct 8338 ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC 8397
Query 8398 TTACCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGA 8457
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Sbjct 8398 TTACCAATTCAAGGGGGGAAAAGTGC GGCTATCGCAGGTGCCGCGCAGCGGCGTACTGA 8457
Query 8458 CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG 8517
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Sbjct 8458 CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCG 8517
Query 8518 CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA 8577
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Sbjct 8518 CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA 8577
Query 8578 GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGT 8637
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Sbjct 8578 GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGT 8637
Query 8638 ACTCCGccccccccggggccccccACAACCAGAATACGACTTGGAGCTTATAACATCAT 8697
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Sbjct 8638 ACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCAT 8697
Query 8698 GCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCC 8757
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Sbjct 8698 GCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACCC 8757
Query 8758 GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA 8817
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Sbjct 8758 GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA 8817
Query 8818 ATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA 8877
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Sbjct 8818 ATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA 8877
Query 8878 TGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG 8937
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Sbjct  8878  |||||TGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG 8937
Query  8938  AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC 8997
Sbjct  8938  AGATCTACGCAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC 8997
Query  8998  TCCATGGCCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGG 9057
Sbjct  8998  TCCATGGCCTCAGCGCATTTTCTACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGG 9057
Query  9058  CCGCATGCCTCAGAAAACCTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGA 9117
Sbjct  9058  CCGCATGCCTCAGAAAACCTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGA 9117
Query  9118  GCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCT 9177
Sbjct  9118  GCGTCCGCGCTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCT 9177
Query  9178  TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCTGG 9237
Sbjct  9178  TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCTGG 9237
Query  9238  ACTTGTCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTC 9297
Sbjct  9238  ACTTGTCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTC 9297
Query  9298  ATGCCCGGCCCCGCTGGTTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCT 9357
Sbjct  9298  ATGCCCGGCCCCGCTGGTTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCT 9357
Query  9358  ACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC--GGCC 9400
Sbjct  9358  ACCTCCTCCCCAACCGGTGAAGATTGGGGCTAACC ACTCCAGGCC 9401
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>**dbj|BD069999.1|** Functional DNA clone for hepatitis C virus (HCV) and uses thereof
Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Query  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT 59
Sbjct  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT 59
Query  60      GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119
Sbjct  60      GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119
Query  120     cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Sbjct  120     CCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Query  180     GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 239
Sbjct  180     GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 239
Query  240     CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAG 299
Sbjct  240     CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAG 299
Query  300     GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Sbjct  300     GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Query  360     CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT 419
Sbjct  360     CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT 419
Query  420     GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG 479
Sbjct  420     GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG 479
Query  480     CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC 539
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Sbjct	480		CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540		AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Sbjct	540		AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Query	600		GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Sbjct	600		GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Query	660		TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Sbjct	660		TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Query	720		ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Sbjct	720		ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Query	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACA	839
Sbjct	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACA	839
Query	840		GGGAACCTTCCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840		GGGAACCTTCCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900		GTGCCCCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900		GTGCCCCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960		TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960		TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080		GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080		GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140		GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140		GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Query	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259		TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TG	1318
Sbjct	1259		TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TG	1318
Query	1319		GTCCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319		GTCCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379		CATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379		CATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439		GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439		GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499		CGTCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499		CGTCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559		CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559		CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619		CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678

Sbjct	1619	CTTGAAC	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTTGACGAACGCCCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCATCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCATCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459	GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459	GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGGAGC	2698
Sbjct	2639	GTCCTTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGGAGC	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGT	2818

Sbjct	2759		GGCATA	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGGTT	2818	
Query	2819		AATGGC	CGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878	
Sbjct	2819		AATGGC	CGCTGACTCTGTTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878	
Query	2879		TCAGTA	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACCTCAACGT	2938	
Sbjct	2879		TCAGTA	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACCTCAACGT	2938	
Query	2939		CCGGGG	GGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998	
Sbjct	2939		CCGGGG	GGGGCGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998	
Query	2999		TGACAT	CACCAA	CTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACAT	CACCAA	CTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAA	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118	
Sbjct	3059		GCTTAA	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118	
Query	3119		GAAGAT	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178	
Sbjct	3119		GAAGAT	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178	
Query	3179		CACCTA	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238	
Sbjct	3179		CACCTA	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238	
Query	3239		TCTGGC	CGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298	
Sbjct	3239		TCTGGC	CGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298	
Query	3299		GGGGGC	CAGATACCGCCGCGTGC	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299		GGGGGC	CAGATACCGCCGCGTGC	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Query	3359		GGGCCA	GAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418	
Sbjct	3359		GGGCCA	GAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418	
Query	3419		GGCGCC	CATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478	
Sbjct	3419		GGCGCC	CATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478	
Query	3479		CCTGAC	TGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538	
Sbjct	3479		CCTGAC	TGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538	
Query	3539		CCAAAC	CTTCCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598	
Sbjct	3539		CCAAAC	CTTCCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598	
Query	3599		AACGAG	GACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATAACCAATGTGGACCA	3658	
Sbjct	3599		AACGAG	GACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATAACCAATGTGGACCA	3658	
Query	3659		AGACCT	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718	
Sbjct	3659		AGACCT	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGG	3718	
Query	3719		CTCCTC	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778	
Sbjct	3719		CTCCTC	GGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778	
Query	3779		TGATAG	CAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838	
Sbjct	3779		TGATAG	CAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTAAAGGCTCCTCGGG	3838	
Query	3839		GGGTCC	GCCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898	
Sbjct	3839		GGGTCC	GCCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898	
Query	3899		CCGTGG	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958	

Sbjct	3899		CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959		ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959		ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019		CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019		CCACCTGCATGCTCCCACCGGCAGTGGAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079		CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCT	4138
Sbjct	4079		CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCT	4138
Query	4139		TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139		TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199		CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199		CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259		AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259		AGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319		CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319		CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT	4378
Query	4379		CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379		CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439		TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439		TCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498		AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498		AGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Query	4558		AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA	4617
Sbjct	4558		AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCA	4617
Query	4618		TCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618		TCCCGACCAACGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Query	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCC	4737
Sbjct	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCC	4737
Query	4738		TTGACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738		TTGACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798		AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGG	4857
Sbjct	4798		AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGG	4857
Query	4858		AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858		AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Query	4918		CTTGGTATGAGCTCACGCCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918		CTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Query	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Query	5038		CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC	5097

Sbjct	5038		CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC	5097
Query	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACC	5157
Sbjct	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACC	5157
Query	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Sbjct	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Query	5218		ACAGACTGGGCGCTGTTTCTAGAAATGAAGTCACCTGACGCACCCAATCACCAAATACATCA	5277
Sbjct	5218		ACAGACTGGGCGCTGTTTCTAGAAATGAAGTCACCTGACGCACCCAATCACCAAATACATCA	5277
Query	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Sbjct	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Query	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Sbjct	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Query	5398		TCGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Sbjct	5398		TTGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Query	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Query	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Query	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Query	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAA	5757
Query	5758		CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758		CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818		CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818		CTACCGCCTTTGTGGGCGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Sbjct	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Query	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Query	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118		GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118		GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Query	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237

Sbjct	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Query	6358		TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358		TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478		TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478		TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Query	6538		CCACGGGCCCCCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538		CCACGGGCCCCCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598		CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598		CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658		CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGG	6717
Sbjct	6658		CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGG	6717
Query	6718		ACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718		ACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778		CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAAC	6837
Sbjct	6778		CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAAC	6837
Query	6838		CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Sbjct	6838		CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Query	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Query	6958		TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Sbjct	6958		TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078		CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
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Query	7138		GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
Sbjct	7138		GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
Query	7198		CCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198		CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258		ACGAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTC	7317
Sbjct	7258		ACGAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTC	7317
Query	7318		CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCG	7377

Sbjct	7318		CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTACTGCCTTGGCCG	7377
Query	7378		AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA	7437
Sbjct	7378		AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGA	7437
Query	7438		CAACATCCTCTGAGCCCGCCCCCTTCTGGCTG?????GACTCCGACGTTGAGTCCTATT	7497
Sbjct	7438		CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATT	7497
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Sbjct	7498		CTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTTACGCGACGGGTCATGGT	7557
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Sbjct	7558		CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT	7617
Query	7618		GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCAC	7677
Sbjct	7618		GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCAC	7677
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Sbjct	7678		TGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTT	7737
Query	7738		GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
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Query	7798		ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
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Query	7858		AGGAAGCTTGACGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Sbjct	7858		AGGAAGCTTGACGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Query	7918		AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACC	7977
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Query	7978		TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCT	8037
Sbjct	7978		TTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTTCTCT	8037
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Sbjct	8038		GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG	8097
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Sbjct	8098		GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCG	8157
Query	8158		TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTC	8217
Sbjct	8158		TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTC	8217
Query	8218		AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACT	8277
Sbjct	8218		AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACT	8277
Query	8278		CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Sbjct	8278		CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
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Query	8398		TTACCAATTCAAGGGGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGA	8457
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Query	8458		CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG	8517

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Query 8518 |CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA| 8577
Sbjct 8518 |CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA| 8577
Query 8578 |GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGT| 8637
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Sbjct 8638 |ACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCAT| 8697
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Sbjct 8938 |AGATCTACGCAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC| 8997
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Sbjct 8998 |TCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGG| 9057
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Sbjct 9058 |CCGCATGCCTCAGAAAACCTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGA| 9117
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Query 9178 |TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGG| 9237
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Sbjct 9358 |ACCTCCTCCCCAACCGGTGAAGATTGGGGCTAACCCTCCAGGCC| 9401
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Length=9416

Score = 1.688e+04 bits (9142), Expect = 0.0
Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus

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Sbjct 1 |GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT| 59
Query 60 |GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA| 119
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Sbjct	120		CCCCCCCCICCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
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Sbjct	180		GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCCC	239
Query	240		CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240		CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300		GGTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Sbjct	300		GGTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Query	360		CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCCGGGT	419
Sbjct	360		CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCCGGGT	419
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Sbjct	420		GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480		CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480		CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540		AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCTTGGCCCCCTCTAT	599
Sbjct	540		AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGTACCCTTGGCCCCCTCTAT	599
Query	600		GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Sbjct	600		GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
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Sbjct	660		TGGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Query	720		ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Sbjct	720		ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
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Sbjct	780		GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACA	839
Query	840		GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840		GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900		GTGCCCCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900		GTGCCCCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960		TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960		TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
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Sbjct	1080		GCCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140		GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140		GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Query	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258

Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCCGAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319	GTCCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	GTCCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGACACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGGAAATGCCGGCCGACACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAAGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAACATCCAAGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAATTGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAGCGGCCTTGACGAACGCCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398

Sbjct	2339		GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399		CACCGGCCATCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399		CACCGGCCATCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459		GTCAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCT	2518
Sbjct	2459		GTCAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Query	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Query	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT	2938
Query	2939		CCgggggggCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939		CCGGGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998
Query	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Query	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Query	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299		GGGGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299		GGGGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Query	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		GGGCCAGGAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479		CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538

Sbjct	3479	 CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Query	3659	AGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	CCACCTGCATGCTCCCACCGGCAGTGGAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	AGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA	4617
Sbjct	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCA	4617
Query	4618	TCCCGACCAGCGGCATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677

Sbjct	4618		TCCCCGACCAACGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Query	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACAGCC	4737
Sbjct	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACAGCC	4737
Query	4738		TTGACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738		TTGACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798		AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGG	4857
Sbjct	4798		AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGG	4857
Query	4858		AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858		AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Query	4918		CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918		CTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Query	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Query	5038		CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC	5097
Sbjct	5038		CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC	5097
Query	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACC	5157
Sbjct	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACC	5157
Query	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCAACACCCCTGCTAT	5217
Sbjct	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCAACACCCCTGCTAT	5217
Query	5218		ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCA	5277
Sbjct	5218		ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCA	5277
Query	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Sbjct	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Query	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA	5397
Sbjct	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA	5397
Query	5398		TCGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG	5457
Sbjct	5398		TTGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG	5457
Query	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Query	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Query	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Query	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698		CCATTGCTTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698		CCATTGCTTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAA	5757
Query	5758		CCCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817

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Sbjct  5758  |||||
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Query  5818  CTACTGCCTTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Sbjct  5818  CTACCGCCTTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA 5877
Query  5878  AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Sbjct  5878  AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT 5937
Query  5938  TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA 5997
Sbjct  5938  TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA 5997
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Sbjct  5998  TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG 6057
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Sbjct  6058  TTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG 6117
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Sbjct  6478  TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA 6537
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Sbjct  6538  CCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT 6597
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Sbjct  6778  CATTGAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCAAC 6837
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Sbjct  6838  CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG 6897
Query  6898  CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC 6957
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Sbjct	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGC	6957
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Sbjct	6958		TGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078		CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078		CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138		GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
Sbjct	7138		GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
Query	7198		CCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198		CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258		ACGAACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTC	7317
Sbjct	7258		ACGAACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTC	7317
Query	7318		CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCG	7377
Sbjct	7318		CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTACTGCCTTGGCCG	7377
Query	7378		AGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA	7437
Sbjct	7378		AGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGA	7437
Query	7438		CAACATCCTCTGAGCCCGCCCCCTTCTGGCTG???????GACTCCGACGTTGAGTCTATT	7497
Sbjct	7438		CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCTATT	7497
Query	7498		CTTCCATG???????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	7557
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Sbjct	7618		GGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCAC	7677
Query	7678		TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTT	7737
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Sbjct	7738		GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Query	7798		ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Sbjct	7798		ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Query	7858		AGGAAGCTTGCGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Sbjct	7858		AGGAAGCTTGCGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Query	7918		AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Sbjct	7918		AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Query	7978		TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCT	8037
Sbjct	7978		TTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTTCTTCT	8037
Query	8038		GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGG	8097

Sbjct	8038		GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCCGACCTGG	8097
Query	8098		GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCG	8157
Sbjct	8098		GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCG	8157
Query	8158		TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGC	8217
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Query	8218		AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACT	8277
Sbjct	8218		AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACT	8277
Query	8278		CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Sbjct	8278		CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Query	8338		ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Sbjct	8338		ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Query	8398		TTACCAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGA	8457
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Query	8458		CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG	8517
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Query	8518		CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518		CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Query	8578		GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGT	8637
Sbjct	8578		GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGT	8637
Query	8638		ACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638		ACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Query	8698		GTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCC	8757
Sbjct	8698		GTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACCC	8757
Query	8758		GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Sbjct	8758		GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Query	8818		ATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA	8877
Sbjct	8818		ATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA	8877
Query	8878		TGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
Sbjct	8878		TGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
Query	8938		AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Sbjct	8938		AGATCTACGCAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
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Sbjct	9058		CCGCATGCCTCAGAAAACCTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGA	9117
Query	9118		GCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCT	9177
Sbjct	9118		GCGTCCGCGCTAGGCTTCTGTCCAGGGGAGGAGGGCTGCCATATGTGGCAAGTACCTCT	9177
Query	9178		TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGG	9237

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Sbjct  9178  |||||TCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGG 9237
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Sbjct  9238  |||||ACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTC 9297
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>emb|GM680540.1| Sequence 13 from Patent EP1947185
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Sbjct  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
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Sbjct  61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query  121     cccccctccccgggagagccatagtggtctgcggaaccgggtgagtacaccggaattgccag 180
Sbjct  121     cccccctccccgggagagccatagtggtctgcggaaccgggtgagtacaccggaattgccag 180
Query  181     GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Sbjct  181     GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Query  241     GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct  241     GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Query  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
Sbjct  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
Query  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Query  481     GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Sbjct  481     GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Query  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600
Sbjct  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600
Query  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Sbjct  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Query  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA 720
Sbjct  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA 720
Query  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
Sbjct  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
Query  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
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Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841		GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021		TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081		CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381		TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561		CCAAGCAGAACATCCAAC TGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		CCAAGCAGAACATCCAAC TGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621		TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681		TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741		AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741		AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Query	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921		ACAGCTGGGGTGC AAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980

Sbjct	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981		GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041		CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
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Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCCTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
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Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
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Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
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Sbjct	2521		CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
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Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
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Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
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Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
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Sbjct	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
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Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
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Sbjct	3001		ACATCACCAAATACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
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Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
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Sbjct	3241		TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
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Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
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Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
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Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
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Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
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Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
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Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
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Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
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Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
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Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
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Sbjct	4201	 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	 CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	 GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	 CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	 ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	 ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	 GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	 GCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
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Sbjct	4921	 GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Sbjct	4981	 GGCTTCCCCTGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	 ATATAGATGCCCACTTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
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Sbjct	5161	 TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
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Sbjct	5221	 GACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	 CATGCATGTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400

Sbjct	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
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Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760
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Sbjct	5761		TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880		GTCCTCGTGGACATTCTTGCAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5939
Sbjct	5880		GTCCTCGTGGACATTCTTGCAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATT	5939
Query	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Sbjct	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Query	6000		CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTT	6059
Sbjct	6000		CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGG	6119
Sbjct	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGG	6119
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Sbjct	6120		AACCATGTTTTCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
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Sbjct	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240		GAGTGTACCACTCCATGCTCCGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240		GAGTGTACCACTCCATGCTCCGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360		CCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360		CCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480		GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539

Sbjct	6480		GTCGGTCC		TAGGACCT		GC		AAGAACAT		GTGGAGT		GGGACGTT		CTTCATTAAT		GCCTACACC	6539
Query	6540		ACGGGCCC		CTGTACTC		CCCCTT		CTCGCGCC		GA		ACTATA		AAGTTCG		CGCTGTGG	6599
Sbjct	6540		ACGGGCCC		CTGTACTC		CCCCTT		CTCGCGCC		GA		ACTATA		AAGTTCG		CGCTGTGG	6599
Query	6600		GCAGAGGA		ATACGTGG		AAGT		CGGGTGGG		GGGACTT		CCACTAC		GTATCGG		GTATGACT	6659
Sbjct	6600		GCAGAGGA		ATACGTGG		AAGT		CGGGTGGG		GGGACTT		CCACTAC		GTATCGG		GTATGACT	6659
Query	6660		ACTGACA		AATCTTAA		ATGCCCGT		GCCAGAT		CCCATC		GCCCCGA		ATTTTTT		CACAGAAT	6719
Sbjct	6660		ACTGACA		AATCTCAA		ATGCCCGT		GCCAGAT		CCCATC		GCCCCGA		ATTTTTT		CACAGAAT	6719
Query	6720		GGGGTGC		GCGCTAC		ACAGGTTT		TGCGCCCC		CTTGCA		AAGCCCTT		GTCTGCG		GGGAGG	6779
Sbjct	6720		GGGGTGC		GCGCTAC		ATAGGTTT		TGCGCCCC		CTTGCA		AAGCCCTT		GTCTGCG		GGGAGG	6779
Query	6780		TTCAGAGT		AGGACTCC		ACGAGTAC		CCGGTGGG		GTGCAATT		ACCTTGC		GAGCCCC		GAACCG	6839
Sbjct	6780		TTCAGAGT		AGGACTCC		ACGAGTAC		CCGGTGGG		GTGCAATT		ACCTTGC		GAGCCCC		GAACCG	6839
Query	6840		GACGTAG		CCGTGTT		GACGTCC		ATGCTCA		CTGATCC		CTCCCAT		ATAACAG		CAGAGG	6899
Sbjct	6840		GACGTAG		CCGTGTT		GACGTCC		ATGCTCA		CTGATCC		CTCCCAT		ATAACAG		CAGAGG	6899
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Sbjct	6900		GGGAGA		AAGGTTG		GCGAGAGG		GTCA		CCCCCTT		CTATGG		CCAGCTC		CTCGGCT	6959
Query	6960		TCCGCTC		CAATCTCT		CAAGGCA		ACTTGC		ACCGCCA		AACCATG		ACTCCC		TGACGCC	7019
Sbjct	6960		TCCGCTC		CAATCTCT		CAAGGCA		ACTTGC		ACCGCCA		AACCATG		ACTCCC		TGACGCC	7019
Query	7020		ATAGAGG		CTAACCTC		CTGTGG		AGGCAGG		AGATGGG		CGGCAAC		ATCACC		AGGGTT	7079
Sbjct	7020		ATAGAGG		CTAACCTC		CTGTGG		AGGCAGG		AGATGGG		CGGCAAC		ATCACC		AGGGTT	7079
Query	7080		GAGAAC		AAAGTGGT		GATTCTG		GACTCCTT		CGATCCG		CTTG		TGGCAG		AGGAGG	7139
Sbjct	7080		GAGAAC		AAAGTGGT		GATTCTG		GACTCCTT		CGATCCG		CTTG		TGGCAG		AGGAGG	7139
Query	7140		GAGGTCT		CCGTACCT		GCAGAA		ATTCTG		CGGAAGT		CTCGG		AGATTCG		CCCCGG	7199
Sbjct	7140		GAGGTCT		CCGTACCT		GCAGAA		ATTCTG		CGGAAGT		CTCGG		AGATTCG		CCCCGG	7199
Query	7200		GTCTGGG		CGCGGG		CGGACTA		CA		ACCCCC		CGCTAG		TAGAGAC		GTGGAAA	7259
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Query	7260		GAACCAC		CTGTGGT		TCCATGG		CTGCCC		GTACCA		CTCCAC		GGTCCCC		TCTGTG	7319
Sbjct	7260		GAACCAC		CTGTGGT		TCCATGG		CTGCCC		GTACCA		CTCCAC		GGTCCCC		TCTGTG	7319
Query	7320		CCTCGG		AAAAAG		CGTACG		GTGGT		CCTCACC		GAATCA		AACCTAT		CTACTG	7379
Sbjct	7320		CCTCGG		AAAAAG		CGTACG		GTGGT		CCTCACC		GAATCA		AACCTAT		CTACTG	7379
Query	7380		CTTGCC		ACCAAAA		AGTTTTT		TGGCAG		CTCCTCA		ACTTCC		GGCATTAC		GGGCGA	7439
Sbjct	7380		CTTGCC		ACCAAAA		AGTTTTT		TGGCAG		CTCCTCA		ACTTCC		GGCATTAC		GGGCGA	7439
Query	7440		ACATCCT		CTTGAG		CCCCG		CCCCCTT		CTGGCTG		g		g		g	7499
Sbjct	7440		ACATCCT		CTTGAG		CCCCG		CCCCCTT		CTGGCTG		g		g		g	7499
Query	7500		TCCATG		g		g		g		g		g		g		g	7559
Sbjct	7500		TCCATG		g		g		g		g		g		g		g	7559
Query	7560		ACGGTC		AGTAGT		GGGGCC		GACACG		GAAGATG		TCGTGT		GCTGCT		CAATGT	7619
Sbjct	7560		ACGGTC		AGTAGT		GGGGCC		GACACG		GAAGATG		TCGTGT		GCTGCT		CAATGT	7619
Query	7620		ACAGGCG		CACTCGT		CACCCCGT		GCGCTG		CGGAAGA		ACAAAA		ACTGCC		CATCAAC	7679

Sbjct	7620		ACAGGCGCACTCGTCACCCCGTGCGCTGCGGAGGAACAAAACTGCCCATCAACGCACTG	7679
Query	7680		AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680		AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
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Sbjct	7740		CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
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Sbjct	7800		GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860		GAAGCTTGCAAGCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860		GAAGCTTGCAAGCTGGCGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
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Sbjct	7920		GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTT	7979
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Query	8160		ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160		ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220		GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
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Sbjct	8460		ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
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Sbjct	8520		GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
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Sbjct	8580		GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Query	8640		TCCGcccccccggggagccccACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640		TCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
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Sbjct	8700		TCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760		GACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819

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Sbjct 8760 |GACCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCAGTCAAT| 8819
Query 8820 |TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG| 8879
Sbjct 8820 |TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG| 8879
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Sbjct 9360 |CTCCTCCCCAACCGATGAAGATTGGGGTAACCACTCCAGGCCAAT-AGGCCATTCCCT| 9416
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>**dbj|D128636.1** VACCINES CONTAINING RIBAVIRIN ANDMETHODS OF USE THEREOF
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Query 61 |TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC| 120
Sbjct 61 |TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC| 120
Query 121 |CCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG| 180
Sbjct 121 |CCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG| 180
Query 181 |GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC| 240
Sbjct 181 |GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC| 240
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Sbjct 241 |GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG| 300
Query 301 |GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC| 360
Sbjct 301 |GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC| 360
Query 361 |CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG| 420
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Query	481		GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
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Sbjct	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
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Sbjct	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721		CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721		CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021		TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC	1320
Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC	1320
Query	1321		CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381		TGATCGCTGGTGTCTCACTGGGGAGTCC	1440
Sbjct	1381		TGATCGCTGGCGCCCACTGGGGAGTCC	1440
Query	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560

Sbjct	1501	 TCACCGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGCTTCTCCTGTTTCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTGCTTCTCCTGTTTCTTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700

Sbjct	2641		CCTTCCTCGTGTCTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCAACGTCC	2940
Query	2941		CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGGCCCTGGTATTTG	3000
Query	3001		ACATCACCAAATACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAATACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATAACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		GGGCAGATAACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCAAGGGTCCGTGCATCCAGATGTATAACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCAAGGGTCCGTGCATCCAGACGTATAACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840

Sbjct	3781	 ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	 GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	 GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	 CCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	 CGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	 TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	 GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	 TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	 CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	 ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	 ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	 GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	 GCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980

Sbjct	4921		GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCCG	4980
Query	4981		GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981		GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041		ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161		TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		TGCGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221		GACTGGGCGCTGTTTCAAGTGAAGTCACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		GACTGGGCGCTGTTTCAAGTGAAGTCACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281		CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281		CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521		AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761		TCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880		GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880		GTCCTCGTGGACATTCTTGCAGGCTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTC	5939
Query	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Sbjct	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Query	6000		CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTT	6059
Sbjct	6000		CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119

Sbjct	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGG	6119
Query	6120		AACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Sbjct	6120		AACCATGTTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Query	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGATT	6359
Sbjct	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGATT	6359
Query	6360		CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360		CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480		GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480		GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660		ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Sbjct	6660		ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Query	6720		GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720		GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCG	6839
Sbjct	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCG	6839
Query	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Sbjct	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960		TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960		TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020		ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020		ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140		GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGCCC	7199
Sbjct	7140		GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
Query	7200		GTCTGGGCGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259

Sbjct	7200	GTCTGGGCGCGGCCGGA	CTACAACCCCTGCTAGTAGAGACGTGGA	AAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCG			7319
Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCG			7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAG			7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTACCTACTGCCTTGGCCGAG			7379
Query	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA			7439
Sbjct	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA			7439
Query	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTG	GGGGGACTCCGACGTTGAGTCTATTCT		7499
Sbjct	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTG	GGGGGCGACTCCGACGTTGAGTCTATTCT		7499
Query	7500	TCCATG	GGGGGGTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	CG	7559
Sbjct	7500	TCCATG	GGGGGGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	CG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGG			7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGG			7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGC	GCTGCGGAAGAACAAAACTGCCCATCAACGCACTG		7679
Sbjct	7620	ACAGGCGCACTCGTCACCCCGTGC	GCGGAGGAACAAAACTGCCCATCAACGCACTG		7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC			7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC			7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTC	TGGACAGCCATTACCAGGAC		7799
Sbjct	7740	CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTC	TGGACAGCCATTACCAGGAC		7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG			7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG			7859
Query	7860	GAAGCTTG	CAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAAA		7919
Sbjct	7860	GAAGCTTG	CAGCCTGGCGCCCCACATTCAGCCAAATCCAAGTTTGCTATGGGGCAAAA		7919
Query	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTT			7979
Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTT			7979
Query	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC			8039
Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC			8039
Query	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGT	TCCCCGACCTGGGC		8099
Sbjct	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGT	TCCCCGACCTGGGC		8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG			8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG			8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAA			8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAA			8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATAACCCGCTGTTTTGACTCC			8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCCGATGGGGCTCTCGTATGATAACCCGCTGTTTTGACTCC			8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC			8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC			8339
Query	8340	CCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT			8399

Sbjct	8340	CCCCAAGCCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACA	8459
Sbjct	8400	ACTAATTCAAGGGGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCAGCAGAGTACTGACA	8459
Query	8460	ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Query	8640	TCCGccccccccggggaacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640	TCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Sbjct	8700	TCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760	GACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Sbjct	8760	GACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Query	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Sbjct	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Query	8880	ACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAG	8939
Sbjct	8880	ACCCACTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG	8939
Query	8940	ATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	8940	ATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTC	8999
Query	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC	9059
Sbjct	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCC	9059
Query	9060	GCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGC	9119
Sbjct	9060	GCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGC	9119
Query	9120	GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Sbjct	9120	GTCCGCGCTAGGCTTCTGGCCAGAGGAGGCAAGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Query	9180	AACTGGGCAGTAAGAACAAAGCTCAAAC TCACTCCAATAGCGCCGCTGGCCGGCTGGAC	9239
Sbjct	9180	AACTGGGCAGTAAGAACAAAGCTCAAAC TCACTCCGATAACGGCCGCTGGCCGGCTGGAC	9239
Query	9240	TTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCAT	9299
Sbjct	9240	TTGTCCGGCTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCAT	9299
Query	9300	GCCCGGCCCGCTGGTTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTAC	9359
Sbjct	9300	GCCCGGCCCGCTGGTTTCTGGTTTTTGCTACTCCTGCTTGCTGCAGGGGTAGGCATCTAC	9359
Query	9360	CTCCTCCCCAACCGATGAAGTTGGGGTAAACACTCC--GGCCTCTTAAGCCATTTCCCT	9416
Sbjct	9360	CTCCTCCCCAACCGATGAAGATTGGGGTAACCACTCCAGGCCAAT-AGGCCATTCCCT	9416

>gb|EA281575.1| Sequence 13 from patent US 7261883
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0

Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCTTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140

Sbjct	1081	 CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCAACCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGAATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Sbjct	2101	GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280

Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Query	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGACCCCTGGTATTTG	3000
Query	3001		ACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATAACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
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Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
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Sbjct	4321		CGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
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Query	4441		TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
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Sbjct  4501  |||||
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Sbjct  4621  CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG 4680
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Sbjct  4741  ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC 4800
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Sbjct  4981  GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC 5040
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Sbjct  5041  ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG 5100
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Sbjct  5521  AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA 5580
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Sbjct  5581  CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA 5640
Query  5641  ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700
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Sbjct	5641		ATTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
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Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
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Sbjct	5761		TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
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Sbjct	5880		GTCCTCGTGGACATTCTTGCAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATT	5939
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Sbjct	6000		CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGT	6059
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Sbjct	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6119
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Sbjct	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
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Sbjct	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
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Sbjct	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
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Sbjct	6360		CCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
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Sbjct	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
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Sbjct	6480		GTCGGTCCTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
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Sbjct	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
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Sbjct	6720		GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
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Sbjct	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCG	6839
Query	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Sbjct	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
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Sbjct	6960		TCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
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Sbjct	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
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Sbjct	7140		GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
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Sbjct	7440		ACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCAGCTCCGACGTTGAGTCTATTCT	7499
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Sbjct	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCCCTTA	720
Query	721		CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721		CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTTCGGCGCCCCCTCTTGGAGGCG	780
Query	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841		GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021		TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGAATATGATGATGAAC TGGT	1320
Query	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381		TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561		CCAAGCAGAACATCCAAC TGAACAACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		CCAAGCAGAACATCCAAC TGAACAACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621		TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		TGAAC TGAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741		AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCC TACTGCT	1800
Sbjct	1741		AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCC TACTGCT	1800
Query	1801		GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860

Sbjct	1801		GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981		GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041		CCCCTTGTGTCAATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		CCCCTTGTGTCAATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641		CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641		CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTT???????TCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941		???????CGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000

Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGGCCCTGGTATTTG	3000
Query	3001		ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140

Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCA	4200
Query	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321		CGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441		TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561		TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561		TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621		CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681		ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Sbjct	4681		ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Query	4741		ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801		GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861		GCCCCCTCCGGCATGTTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861		GCCCCCTCCGGCATGTTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921		GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921		GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981		GGCTTCCCCTGTGTCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981		GGCTTCCCCTGTGTCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041		ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041		ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161		TGTGGAAGTGTTTGTATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		TGCGGAAGTGTTTGTATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221		GACTGGGCGCTGTTTCTAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280

Sbjct	5221		GACTGGGCGCTGTTT	CAGAATGAAGT	CACCCTGACG	CACCCAAT	CACCAAAT	ACATCATGA	5280
Query	5281		CATGCATGTCGGCCG	ACCTGGAGGTCGT	CACGAGCACCT	GGGTGCTCGTT	TGGCGGCGTCC	5340	
Sbjct	5281		CATGCATGTCGGCCG	ACCTGGAGGTCGT	CACGAGCACCT	GGGTGCTCGTT	TGGCGGCGTCC	5340	
Query	5341		TGGCTGCTCTGGCCG	CGTATTGCCTGT	CAACAGGCTGCG	TGGTCATAGT	GGGCAGGATCG	5400	
Sbjct	5341		TGGCTGCTCTGGCCG	CGTATTGCCTGT	CAACAGGCTGCG	TGGTCATAGT	GGGCAGGATCG	5400	
Query	5401		TCTTGTCGGGAAGCC	GGCAATTATACCT	GCAGGGAGGTTCT	CTACCAGGAGTT	CGATG	5460	
Sbjct	5401		TCTTGTCGGGAAGCC	GGCAATTATACCT	GCAGGGAGGTTCT	CTACCAGGAGTT	CGATG	5460	
Query	5461		AGATGGAAGAGTGCT	CTCAGCACTTACCGT	TACATCGAGCAAGG	GATGATGCTCGCT	GAGC	5520	
Sbjct	5461		AGATGGAAGAGTGCT	CTCAGCACTTACCGT	TACATCGAGCAAGG	GATGATGCTCGCT	GAGC	5520	
Query	5521		AGTTCAAGCAGAAGG	CCCTCGGCCCTCCT	GCAGACCGCGTCCC	GCCATGCAGAGGTT	TATCA	5580	
Sbjct	5521		AGTTCAAGCAGAAGG	CCCTCGGCCCTCCT	GCAGACCGCGTCCC	GCCATGCAGAGGTT	TATCA	5580	
Query	5581		CCCCTGCTGTCCAG	ACCAACTGGCAGAA	ACTCGAGGTCTTTT	TGGCGAAGCACATG	TGGA	5640	
Sbjct	5581		CCCCTGCTGTCCAG	ACCAACTGGCAGAA	ACTCGAGGTCTTTT	TGGCGAAGCACATG	TGGA	5640	
Query	5641		ATTTTCATCAGTGGG	ATACTTGGCGGGCCT	GTCAACGCTGCCT	TGGTAACCCCGCCA	5700		
Sbjct	5641		ATTTTCATCAGTGGG	ATACTTGGCGGGCCT	GTCAACGCTGCCT	TGGTAACCCCGCCA	5700		
Query	5701		TTGCTTCATTGATGG	CTTTTACAGCTGCC	GTACCCAGCCCTA	AACCACTGGCCAA	ACCC	5760	
Sbjct	5701		TTGCTTCATTGATGG	CTTTTACAGCTGCC	GTACCCAGCCCTA	AACCACTGGCCAA	ACCC	5760	
Query	5761		TCCTCTTCAACATAT	TGGGGGGTGGGTGG	CTGCCAGCTCGCCG	CCCCCGGTGCCGCTA	5820		
Sbjct	5761		TCCTCTTCAACATAT	TGGGGGGTGGGTGG	CTGCCAGCTCGCCG	CCCCCGGTGCCGCTA	5820		
Query	5821		CTGCCTTTGTGGGTG	CTGGCCTAGCTGGC	GCCGC-CATCGGCAG	CGTTGGACTGGGGAAG	5879		
Sbjct	5821		CCGCCTTTGTGGGCG	TGGCTTAGCTGGC	GCCGCAC-TCGACAG	CGTTGGACTGGGGAAG	5879		
Query	5880		GTCCTCGTGGACATT	CTTGCAGGGTATGG	CGCGGGCGTGGCG	GGAGCTCTTGTAGCATTC	5939		
Sbjct	5880		GTCCTCGTGGACATT	CTTGCAGGGTATGG	CGCGGGCGTGGCG	GGAGCTCTTGTGGCATTC	5939		
Query	5940		AAGATCATGAGCGGT	GAGGTCCCCCTCC	ACGGAGGACCTGGT	CAATCTGCTGCCCCGCCATC	5999		
Sbjct	5940		AAGATCATGAGCGGT	GAGGTCCCCCTCC	ACGGAGGACCTGGT	CAATCTGCTGCCCCGCCATC	5999		
Query	6000		CTCTCGCCTGGAGCC	CTTGTAGTCGGTGT	TGGTCTGCGCAGCA	ATACTGCGCCGGGCACGTT	6059		
Sbjct	6000		CTCTCACCCTGGAGCC	CTTGCAGTCGGTGT	TGGTCTTTGTCATCA	ATACTGCGCCGGGCGTGTT	6059		
Query	6060		GGCCCCGGGCGAGGG	GGCAGTGCAATGG	ATGAACCGGCTAAT	AGCCTTCGCCTCCCCGGGGG	6119		
Sbjct	6060		GGCCCCGGGCGAGGG	GGCAGTGCAATGG	ATGAACCGGCTAAT	AGCCTTCGCCTCCCCGGGGG	6119		
Query	6120		AACCATGTTTTCCCC	CACGCACTACGTGCC	GGAGAGCGATGCAG	CCGCCCGCGTCACTGCC	6179		
Sbjct	6120		AACCATGTTTTCCCC	CACACACTACGTGCC	GGAGAGCGATGCAG	CCGCCCGCGTCACTGCC	6179		
Query	6180		ATACTCAGCAGCCTC	ACTGTAAACCCAGCT	CCTGAGGCGACTGC	ATCAGTGGATAAGCTCG	6239		
Sbjct	6180		ATACTCAGCAGCCTC	ACTGTAAACCCAGCT	CCTGAGGCGACTGC	ATCAGTGGATAAGCTCG	6239		
Query	6240		GAGTGTACCACTCCA	TGCTCCGGTTCCTGG	CTAAGGGACATCTGGG	ACTGGATATGCGAG	6299		
Sbjct	6240		GAGTGTACCACTCCA	TGCTCCGGTTCCTGG	CTAAGGGACATCTGGG	ACTGGATATGCGAG	6299		
Query	6300		GTGCTGAGCGACTTT	TAAAGACCTGGCTG	AAAGCCAAGCTCATG	CCACAACCTGCCTGGGATT	6359		
Sbjct	6300		GTGCTGAGCGACTTT	TAAAGACCTGGCTG	AAAGCCAAGCTCATG	CCACAACCTGCCTGGGATT	6359		
Query	6360		CCCTTTGTGTCCTG	CCAGCGCGGGTAT	AGGGGGGTCTGGCG	AGGAGACGGCATTATGCAC	6419		

Sbjct	6360		CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480		GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480		GTCGGTCCTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660		ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Sbjct	6660		ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Query	6720		GGGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720		GGGGTGCGCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
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Sbjct	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
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Sbjct	6960		TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
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Sbjct	7020		ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
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Sbjct	7140		GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
Query	7200		GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
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Sbjct	7320		CCTCGGAAAAAGCGTACGGTGGTCCCTACCGAATCAACCCTACCTACTGCCTTGGCCGAG	7379
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Sbjct	7440		ACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCT	7499
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Sbjct  8640  |||||TCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC 8699
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Sbjct  8700  TCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT 8759
Query   8760  GACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT 8819
Sbjct  8760  GACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT 8819
Query   8820  TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG 8879
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Query   8880  ACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAG 8939
Sbjct  8880  ACCCACTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG 8939
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Query   9060  GCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGC 9119
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Query   9180  AACTGGGCAGTAAGAACAAAGCTCAAAC TCACTCCAATAGCGCCGCTGGCCGGCTGGAC 9239
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Sbjct  9240  TTGTCCGGCTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCAT 9299
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Sbjct  9300  GCCCGGCCCGCTGGTTTCTGGTTTTGCTTACTCTGCTTGTGCTGCAGGGGTAGGCATCTAC 9359
Query   9360  CTCCTCCCCAACCGATGAAGTTGGGGTAAACACTCC--GGCCTCTTAAGCCATTTCCCT 9416
Sbjct  9360  CTCCTCCCCAACCGATGAAGATTGGGCTAACC ACTCCAGGCCAAT-AGGCCATTCCCT 9416

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>gb|EA267242.1| Sequence 13 from patent US 7244422
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query   121     CCCCCCTCCCGGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCCCCCTCCCGGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Sbjct   181     GACGACCGGGTCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Query   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300

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Sbjct	241		GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
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Sbjct	301		GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361		CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361		CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421		GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421		GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481		GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481		GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601		GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601		GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721		CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721		CGTGC GGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
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Sbjct	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021		TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGAATATGATGATGAAC TGGT	1320
Query	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
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Sbjct	1381	 TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
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Sbjct	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
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Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
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Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
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Sbjct	2521		2580
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Sbjct	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
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Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
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Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
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Sbjct	3241	TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATAACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
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Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATAACCAATGTGGATCAAG	3660
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Sbjct	3661	TCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGGCT	3720
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Sbjct	5041		ATATAGATGCCCACTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
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Sbjct	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
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Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
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Sbjct	6000	CTCTCACCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
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Sbjct  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT  660

Query  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA  720
Sbjct  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA  720

Query  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG  780
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Query  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG  840
Sbjct  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG  840

Query  841     GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG  900
Sbjct  841     GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG  900

Query  901     TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT  960
Sbjct  901     TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT  960

Query  961     GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG  1020
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Sbjct	961		1020
Query	1021		1080
Sbjct	1021		1080
Query	1081		1140
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Query	1141		1200
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Query	1261		1320
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Query	1321		1380
Sbjct	1321		1380
Query	1381		1440
Sbjct	1381		1440
Query	1441		1500
Sbjct	1441		1500
Query	1501		1560
Sbjct	1501		1560
Query	1561		1620
Sbjct	1561		1620
Query	1621		1680
Sbjct	1621		1680
Query	1681		1740
Sbjct	1681		1740
Query	1741		1800
Sbjct	1741		1800
Query	1801		1860
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Query	1861		1920
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Query	1921		1980
Sbjct	1921		1980
Query	1981		2040
Sbjct	1981		2040
Query	2041		2100
Sbjct	2041		2100
Query	2101		2160

Sbjct	2101		GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
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Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941		gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGGCCCTGGTATTTG	3000
Query	3001		ACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300

Sbjct	3241		TGGCCGTGGCTGTGGAACCGATCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTTCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321		CGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440

Sbjct	4381	 CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGCCATCCTAACATCGAGGAGGTTGCTC	4440
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Sbjct	4441	 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
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Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
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Query	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCCTGTGTCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Sbjct	4981	GGCTTCCCCTGTGTCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
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Sbjct	5401	TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCATG	5460
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Query	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
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Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
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Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
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Sbjct	5880		GTCCTCGTGGACATTCTTGCAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5939
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Sbjct	6360		CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
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Sbjct	6480		GTCGGTCCTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
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Sbjct	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
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Sbjct  6660  |||||
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Query  7680  AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC 7739
Sbjct  7680  AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC 7739
Query  7740  CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC 7799
Sbjct  7740  CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC 7799
Query  7800  GTGCTCAAGGAGGTCAAAGCAGCGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG 7859
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Sbjct	7800		GTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860		GAAGCTTGACGCTGACGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860		GAAGCTTGACGCTGGCGCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920		GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
Sbjct	7920		GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
Query	7980		CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Sbjct	7980		CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Query	8040		GTTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCTGTTCCCCGACCTGGGC	8099
Sbjct	8040		GTTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCTGTTCCCCGACCTGGGC	8099
Query	8100		GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100		GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Query	8160		ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160		ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220		GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220		GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280		ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280		ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340		CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340		CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400		ACCAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCAGCGGCCTACTGACA	8459
Sbjct	8400		ACTAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCAGCAGACTACTGACA	8459
Query	8460		ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Sbjct	8460		ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Query	8520		GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520		GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580		GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580		GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Query	8640		TCCGccccccccggggaacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640		TCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700		TCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Sbjct	8700		TCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760		GACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Sbjct	8760		GACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Query	8820		TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Sbjct	8820		TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Query	8880		ACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAG	8939
Sbjct	8880		ACCCACTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG	8939
Query	8940		ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999

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Sbjct 541 AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCCGGGTACCCTTGGCCCCCTCTATG 600
Query 601 GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Sbjct 601 GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Query 661 GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCCTTA 720
Sbjct 661 GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCCTTA 720
Query 721 CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
Sbjct 721 CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
Query 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Sbjct 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Query 841 GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG 900
Sbjct 841 GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG 900
Query 901 TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
Sbjct 901 TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
Query 961 GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG 1020
Sbjct 961 GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG 1020
Query 1021 TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Sbjct 1021 TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
Query 1081 CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG 1140
Sbjct 1081 CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG 1140
Query 1141 GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG 1200
Sbjct 1141 GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG 1200
Query 1201 TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT 1260
Sbjct 1201 TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT 1260
Query 1261 CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACCTGGT 1320
Sbjct 1261 CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGAATATGATGATGAACCTGGT 1320
Query 1321 CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA 1380
Sbjct 1321 CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA 1380
Query 1381 TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA 1440
Sbjct 1381 TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA 1440
Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500
Sbjct 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500
Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG 1560
Sbjct 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG 1560
Query 1561 CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620
Sbjct 1561 CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620
Query 1621 TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680
Sbjct 1621 TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT 1680
Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC 1740
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Sbjct	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741		AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741		AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Query	1801		GGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801		GGCACTACCTCCAAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACACAAAGTGTGCGGAGCGC	2040
Sbjct	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACACAAAGTGTGCGGAGCGC	2040
Query	2041		CCCCTTGTGTCAATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		CCCCTTGTGTCAATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880

Sbjct	2821		TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCACTCAACGTCC	2940
Query	2941		CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGGCCCTGGTATTTG	3000
Query	3001		ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAACACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020

Sbjct	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321		TGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321		CGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441		TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561		TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561		TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621		CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681		ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Sbjct	4681		ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Query	4741		ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801		GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861		GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861		GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921		GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921		GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981		GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Sbjct	4981		GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Query	5041		ATATAGATGCCCACTTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041		ATATAGATGCCCACTTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGA	5160

Sbjct	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161		TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		TGCGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221		GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281		CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281		CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521		AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581		CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641		ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761		TCCTCTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880		GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5939
Sbjct	5880		GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATT	5939
Query	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Sbjct	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Query	6000		CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTT	6059
Sbjct	6000		CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGG	6119
Sbjct	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGGG	6119
Query	6120		AACCATGTTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Sbjct	6120		AACCATGTTTTCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Query	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299

Sbjct	6240	 GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540	ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Sbjct	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGCCC	7199
Sbjct	7140	GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
Query	7200	GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Sbjct	7200	GTCTGGGCGCGGCCGGACTACAACCCCCTGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCG	7319
Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCG	7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCCCTACCGAATCAACCCTATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCCCTACCGAATCAACCCTACCTACTGCCTTGGCCGAG	7379
Query	7380	CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439

Sbjct	7380	 CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439
Query	7440	ACATCCTCTGAGCCCGCCCTTCTGGCTG GGGGGGG GACTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440	ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCT	7499
Query	7500	TCCATG GGGGGGG TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Sbjct	7500	TCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCCTGG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCCTGG	7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACA AAAA ACTGCCCATCAACGCACTG	7679
Sbjct	7620	ACAGGCGCACTCGTCACCCCGTGCCTGCGGAGGAACA AAAA ACTGCCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA AA AGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA AA AGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAAGCTTGCAAGCCTGACGCCCCCACATTCA AG CCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAAGCCTGGCGCCCCCACATTCA AG CCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCC CA CATCAACTCCGTGTGGAAAGACCTT	7979
Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCC CA CATCAACTCCGTGTGGAAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Query	8040	G TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTC CC CGACCTGGGC	8099
Sbjct	8040	G TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTC CC CGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGCTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCC TC ACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCC TC ACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAA AA ACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACA	8459
Sbjct	8400	ACTAATTCAAGGGGGGAA AA ACTGCGGCTACCGCAGGTGCCGCGCAGCAGAGTACTGACA	8459
Query	8460	ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579

Query	1	GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180

Sbjct	121		180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320

Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGAATATGATGATGAAGTGGT	1320
Query	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381		TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441		ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		ACTGGGCGAAGGTCCTGGTAGTGTCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561		CCAAGCAGAACATCCAACGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		CCAAGCAGAACATCCAACGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621		TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741		AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741		AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACACAAAGTGTGCGGAGCGC	2040
Sbjct	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACACAAAGTGTGCGGAGCGC	2040
Query	2041		CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460

Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Query	2821		TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941		gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGGCCCTGGTATTTG	3000
Query	3001		ACATCACCAAATACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAATACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATAACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATAACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
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Sbjct	3541	AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
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Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGACGTATACCAATGTGGATCAAG	3660
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Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCC	3900
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Query	4021	ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGCTGCGTACGCAGCCC	4080
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Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
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Sbjct	5041		ATATAGATGCCCACTTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
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Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
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Sbjct	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
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Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCCTAACCCTGGCCAAACCC	5760
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Sbjct	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCG	6839
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Sbjct	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
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>**gb|AR453138.1|** Sequence 13 from patent US 6680059
Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0
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Query  181     GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC  240
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Query  241     GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG  300
Sbjct  241     GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG  300
Query  301     GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360
Sbjct  301     GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360
Query  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG  420
Sbjct  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG  420
Query  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGGCCCTAGATTGGGTGTGC  480
Sbjct  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGGCCCTAGATTGGGTGTGC  480
Query  481     GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA  540
Sbjct  481     GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA  540
Query  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG  600
Sbjct  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG  600
Query  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT  660
Sbjct  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT  660
Query  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA  720
Sbjct  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA  720
Query  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG  780
Sbjct  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG  780
Query  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG  840
Sbjct  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG  840
Query  841     GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG  900
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Sbjct	841		GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021		TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		TCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261		CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381		TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561		CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621		TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		TGAATGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681		TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741		AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741		AGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Query	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801		GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Query	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861		ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Query	1921		ACAGCTGGGGTGC AAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		ACAGCTGGGGTGC AAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCTGG	1980
Query	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040

Sbjct	1981		GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041		CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		CCCCTTGTGTTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101		GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Query	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461		CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521		CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		CAGACGCGCGCGTCTGTTCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Query	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761		CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Query	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		TGGCGCTGACTCTGTTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		GGGGGGGGCGCGATGCCGTCATCTTACTCACGTGTGTAGTACACCCGGCCCTGGTATTTG	3000
Query	3001		ACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		ACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180

Sbjct	3121		AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181		CCTATGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Sbjct	3181		CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATC	3240
Query	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		TGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141		ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261		GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320

Sbjct	4261	 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTCGTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTCGTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460

Sbjct	5401	TCTTGTCGGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5939
Sbjct	5880	GTCCTCGTGGACATTCTTGCAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATT	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTT	6059
Sbjct	6000	CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGT	6059
Query	6060	GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGG	6119
Sbjct	6060	GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCCGGGG	6119
Query	6120	AACCATGTTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Sbjct	6120	AACCATGTTTTCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
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Query	8580	GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
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Query	8760	GACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Sbjct	8760	GACCCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Query	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATG	8879

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Score = 1.688e+04 bits (9140), Expect = 0.0
Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus

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Query 61      |TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
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Query 181     |GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
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Query 361     |CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
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Query 421     |GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
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Sbjct	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
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Sbjct	601		GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
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Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
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Query	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081		CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Query	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141		GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
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Sbjct	1201		TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
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Query	1381		TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
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Sbjct	1621		TGAAC TGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
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Sbjct	1741		AGGGCTGGGGTCCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
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Sbjct	1921		ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
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Sbjct	2641		CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
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Query	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		GGGCAGATACCGCCGCGTGCAGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		CGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481		TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541		AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		CGAGGACCATCGCATCACCCAAGGGTCCGTGCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661		ACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTTGACACCCTGCACCTGCGGCT	3720
Query	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		ATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCCATTTCTTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841		GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900

Sbjct	3841	 GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCCTATTTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCC	4620
Query	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCCTCCGGCATGTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040

Sbjct	4981		GGCTTCCCCTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCGCTCACTC	5040
Query	5041		ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Sbjct	5041		ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGG	5100
Query	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Sbjct	5101		TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161		TGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCGAACACCCCTGCTATACA	5220
Sbjct	5161		TGCGGAAGTGTGTTGATCCGCCTTAAACCCACCCCTCCATGGGCGAACACCCCTGCTATACA	5220
Query	5221		GACTGGGCGCTGTTTCAAGTGAAGTCACCGTACGACACCAATCACCAAATACATCATGA	5280
Sbjct	5221		GACTGGGCGCTGTTTCAAGTGAAGTCACCGTACGACACCAATCACCAAATACATCATGA	5280
Query	5281		CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281		CATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341		TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		TCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		AGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		CCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		ATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
Sbjct	5701		TTGCTTCATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCC	5760
Query	5761		TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		TCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821		CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880		GTCCTCGTGGACATTCTTGACAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5939
Sbjct	5880		GTCCTCGTGGACATTCTTGACAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATT	5939
Query	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Sbjct	5940		AAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATC	5999
Query	6000		CTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGGCACGTT	6059
Sbjct	6000		CTCTCACCCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGGCGTGTT	6059
Query	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060		GGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Query	6120		AACCATGTTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179

Sbjct	6120		AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCC	6179
Query	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180		ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240		GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Sbjct	6300		GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATT	6359
Query	6360		CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360		CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420		ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480		GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480		GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540		ACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600		GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660		ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Sbjct	6660		ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGAC	6719
Query	6720		GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720		GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780		TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Query	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Sbjct	6840		GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCC	6899
Query	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900		GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960		TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960		TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020		ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020		ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080		GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140		GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGCCC	7199
Sbjct	7140		GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
Query	7200		GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Sbjct	7200		GTCTGGGCGCGGCCGGACTACAACCCCCTGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Query	7260		GAACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCCTCCTGTGCCTCCG	7319

Sbjct	7260	 GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCG	7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACC GAATCAACCCTATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACC GAATCAACCCTACCTACTGCCTTGGCCGAG	7379
Query	7380	CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439
Query	7440	ACATCCTCTGAGCCCGCCCCCTTCTGGCTG?????GACTCCGACGTTGAGTCTATTCT	7499
Sbjct	7440	ACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCTATTCT	7499
Query	7500	TCCATG?????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Sbjct	7500	TCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGG	7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACA AAAACTGCCCATCAACGCACTG	7679
Sbjct	7620	ACAGGCGCACTCGTCACCCCGTGCCTGCGGAGGAACA AAAACTGCCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAAGCTTGCAAGCCTGACGCCCCCACATT CAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAAGCCTGGCGCCCCCACATT CAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCA CATCAACTCCGTGTGGAAAGACCTT	7979
Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCA CATCAACTCCGTGTGGAAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Query	8040	GTT CAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTC CCGACCTGGGC	8099
Sbjct	8040	GTT CAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTC CCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAA	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATAACCGCTGTTTTGACTCC	8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATAACCGCTGTTTTGACTCC	8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACA	8459

Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT 59

Sbjct	1	 GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT	59
Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Query	120	 CCCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	 GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCCC	239
Sbjct	180	GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCCC	239
Query	240	 CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300	 GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359
Query	360	 CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT	419
Sbjct	360	CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT	419
Query	420	 GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480	 CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540	 AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTAT	599
Query	600	 GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGC	659
Query	660	 TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Sbjct	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTT	719
Query	720	 ACGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGC	779
Query	780	 GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACA	839
Sbjct	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACA	839
Query	840	 GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900	 GTGCCCCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900	GTGCCCCTTCAGCCTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960	 TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020	 GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080	 GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACCAGGGACGGCAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140	 GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199

Sbjct	1140	 GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTTCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCAATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGTCTCACTGGGGAGTCCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGTCTCACTGGGGAGTCCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAAGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAACATCCAAGTATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CTTGAATTGCAACGATAGCCTTACCACCGGCTGGTTAGCAGGGCTCTTCTATCGCCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Query	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCATCAGTTATGCCAACGGAAGCGGCCTTGACGAACGCCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338

Sbjct	2279		GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339		GCTGTCCACCACACAGTGGCAGGTCCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339		GCTGTCCACCACACAGTGGCAGGTCCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Query	2399		CACCGGCCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399		CACCGGCCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459		GTCAAGCATCGCGTCTTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519		TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579		GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639		GTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Query	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699		GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Query	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759		GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		AATGGCGCTGACTCTGTTCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACCTCAACGT	2938
Sbjct	2879		TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACCTCAACGT	2938
Query	2939		CCCGGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939		CCCGGGGGGGCGCGATGCCGTATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATT	2998
Query	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		TGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		GCTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Query	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Query	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		TCTGGCCGTGGCTGTGGAACCAAGTCGCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299		GGGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299		GGGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Query	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478

Sbjct	3419	 GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	 CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	 CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	 AACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCA	3658
Query	3659	AGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	 AGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	 CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	 TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTAAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	 GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCCTAGGGACAACCATGAG	3958
Sbjct	3899	 CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	 ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	 CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	 CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	 TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	 CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	 AGGAGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	 CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	 CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	 TCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	 AGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA	4617

Sbjct	4558		AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCA	4617
Query	4618		TCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618		TCCCGACCAACGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Query	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCC	4737
Sbjct	4678		GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCC	4737
Query	4738		TTGACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738		TTGACCCTACCTTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798		AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGG	4857
Sbjct	4798		AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGG	4857
Query	4858		AGCGCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858		AGCGCCCCCTCCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Query	4918		CTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918		CTTGGTATGAGCTCATGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Query	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978		CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Query	5038		CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC	5097
Sbjct	5038		CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC	5097
Query	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACC	5157
Sbjct	5098		TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACC	5157
Query	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Sbjct	5158		AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Query	5218		ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCA	5277
Sbjct	5218		ACAGACTGGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCCAATCACCAAATACATCA	5277
Query	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Sbjct	5278		TGACATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Query	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA	5397
Sbjct	5338		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGA	5397
Query	5398		TCGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG	5457
Sbjct	5398		TTGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCG	5457
Query	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458		ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Query	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Query	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGT	5637
Query	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAA	5757

Sbjct	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Query	5758		CCCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758		CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818		CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818		CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878		AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Sbjct	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Query	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Query	6058		TTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058		TTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118		GGAACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118		GGAACCATGTTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Query	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGA	6357
Sbjct	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCTGGGA	6357
Query	6358		TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358		TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418		ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478		TCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478		TCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Query	6538		CCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538		CCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGT	6597
Query	6598		CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598		CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658		CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTTACAGAATTGG	6717
Sbjct	6658		CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTTACAGAATTGG	6717
Query	6718		ACGGGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718		ACGGGGTGCGCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778		CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCAAC	6837
Sbjct	6778		CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCAAC	6837
Query	6838		CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897

Sbjct	6838		CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGG	6897
Query	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898		CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGC	6957
Query	6958		TGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Sbjct	6958		TGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018		TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078		CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078		CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138		GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
Sbjct	7138		GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGC	7197
Query	7198		CCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198		CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258		ACGAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTC	7317
Sbjct	7258		ACGAACCACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTC	7317
Query	7318		CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCG	7377
Sbjct	7318		CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTACTGCCTTGGCCG	7377
Query	7378		AGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA	7437
Sbjct	7378		AGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGA	7437
Query	7438		CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCTTATT	7497
Sbjct	7438		CAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCTTATT	7497
Query	7498		CTTCCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	7557
Sbjct	7498		CTTCCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTTACAGCGACGGGTCATGGT	7557
Query	7558		CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCT	7617
Sbjct	7558		CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT	7617
Query	7618		GGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCAC	7677
Sbjct	7618		GGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCAC	7677
Query	7678		TGAGCAACTCGTTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTT	7737
Sbjct	7678		TGAGCAACTCGTTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTT	7737
Query	7738		GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Sbjct	7738		GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Query	7798		ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
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Query	7858		AGGAAGCTTGACAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
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Query	7918		AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Sbjct	7918		AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Query	7978		TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCT	8037

Sbjct	7978		TTCTGGAAGACAGTGTAAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCT	8037
Query	8038		GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG	8097
Sbjct	8038		GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGG	8097
Query	8098		GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCG	8157
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Query	8158		TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGC	8217
Sbjct	8158		TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGC	8217
Query	8218		AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACT	8277
Sbjct	8218		AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACT	8277
Query	8278		CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Sbjct	8278		CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Query	8338		ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Sbjct	8338		ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
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Query	8458		CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG	8517
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Query	8518		CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518		CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Query	8578		GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGT	8637
Sbjct	8578		GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGT	8637
Query	8638		ACTCCGccccccccggggccccccACAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638		ACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Query	8698		GTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCC	8757
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Query	8758		GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Sbjct	8758		GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Query	8818		ATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA	8877
Sbjct	8818		ATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGA	8877
Query	8878		TGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
Sbjct	8878		TGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
Query	8938		AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Sbjct	8938		AGATCTACGCAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Query	8998		TCCATGGCCTCAGCGCATTTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGG	9057
Sbjct	8998		TCCATGGCCTCAGCGCATTTTTTACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGG	9057
Query	9058		CCGCATGCCTCAGAAAAC TTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGA	9117
Sbjct	9058		CCGCATGCCTCAGAAAAC TTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGA	9117
Query	9118		GCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCT	9177

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Sbjct  9298  ATGCCCGGCCCGCTGGTTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCT 9357
Query  9358  ACCTCCTCCCCAACCGATGAAGGTTGGG--G-TAAACACTCCGGCCT 9401
Sbjct  9358  ACCTCCTCCCCAACCGGTGAACG--GGGAGCTAGACACTCCGGCCT 9401
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>**gb|AR607374.1|** Sequence 7 from patent US 6821955
Length=9365

Score = 1.665e+04 bits (9016), Expect = 0.0
Identities = 9249/9365 (98%), Gaps = 2/9365 (0%)
Strand=Plus/Plus

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Sbjct  2  TGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAA 61
Query  74  AGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA#####TCCCGGG 133
Sbjct  62  AGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCTCCCGGG 121
Query  134  AGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCC 193
Sbjct  122  AGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCC 181
Query  194  TTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAG 253
Sbjct  182  TTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAG 241
Query  254  CCGAGTAGTGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTG 313
Sbjct  242  CCGAGTAGTGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTG 301
Query  314  CCCCAGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAAC 373
Sbjct  302  CCCCAGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCCCAAAGAAAAAC 361
Query  374  CAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGT 433
Sbjct  362  CAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGT 421
Query  434  TGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAA 493
Sbjct  422  TGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAA 481
Query  494  GACTTCCGAGCGGTTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCC 553
Sbjct  482  GACTTCCGAGCGGTTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCC 541
Query  554  CGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTG 613
Sbjct  542  CGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTG 601
Query  614  CGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGA 673
Sbjct  602  CGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGA 661
Query  674  CCCCCGGCGTAGGTTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTACGTGCGGCTTCGC 733
Sbjct  662  CCCCCGGCGTAGGTTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTACGTGCGGCTTCGC 721
Query  734  CGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCT 793
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Sbjct	722		CGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCT	781
Query	794		GGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCCTGG	853
Sbjct	782		GGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCCTGG	841
Query	854		TTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCCTTCAGC	913
Sbjct	842		TTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACCGTGCCCCTTCAGC	901
Query	914		CTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAG	973
Sbjct	902		CTACCAAGTGCGCAATTCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAG	961
Query	974		TATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTTCGTTTCG	1033
Sbjct	962		TATTGTGTACGAGGCGGCCGATGCCATCCTACACACTCCGGGGTGTGTCCCTTTCGTTTCG	1021
Query	1034		CGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGG	1093
Sbjct	1022		CGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGG	1081
Query	1094		CAAACCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTGGGAGCGCCACCCT	1153
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Query	1154		CTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGGTCAACTGTT	1213
Sbjct	1142		CTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGGTCAACTGTT	1201
Query	1214		TACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGG	1273
Sbjct	1202		TACCTTCTCTCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGG	1261
Query	1274		CCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCCTACGGCAGC	1333
Sbjct	1262		CCATATAACGGGTCATCGTATGGCATGGGATATGATGATGAACTGGTCCCCCTACGGCAGC	1321
Query	1334		GTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGC	1393
Sbjct	1322		GTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGC	1381
Query	1394		TCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGT	1453
Sbjct	1382		CCACTGGGGAGTCTTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGT	1441
Query	1454		CCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAA	1513
Sbjct	1442		CCTGGTAGTGCTGCTGCTATTTGCCGGCGTTGACGCGGAAACCCACGTCACCGGGGGAAAG	1501
Query	1514		TGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCGCCAAGCAGAACAT	1573
Sbjct	1502		TGCCGGCCGCACCACGGCTGGGCTTGTTCGCTCTCCTTTACACCAGGCGCCAAGCAGAACAT	1561
Query	1574		CCAACGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGA	1633
Sbjct	1562		CCAACGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGA	1621
Query	1634		AAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGG	1693
Sbjct	1622		AAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCACCACAAATTCAACTCTTCAGG	1681
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Query	1754		TATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCTCC	1813
Sbjct	1742		TATCAGTTACGCCAACGGAAGCGGCCTCGATGAACGCCCTACTGCTGGCACTACCTCC	1801
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Sbjct	1802		AAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCC	1861
Query	1874		CAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGC	1933

Sbjct	1862		CAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGC	1921
Query	1934		AAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGG	1993
Sbjct	1922		AAATGATACGGATGTCTTTGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGG	1981
Query	1994		TTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCAT	2053
Sbjct	1982		TTGCACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCAT	2041
Query	2054		CGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA	2113
Sbjct	2042		CGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAGCATCCGGA	2101
Query	2114		AGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTA	2173
Sbjct	2102		AGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTA	2161
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Sbjct	2162		CCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGAT	2221
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Sbjct	2222		GTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACG	2281
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Sbjct	2282		CTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGTCCACCACGCA	2341
Query	2354		GTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCA	2413
Sbjct	2342		GTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCA	2401
Query	2414		CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTC	2473
Sbjct	2402		CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTC	2461
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Sbjct	2462		CTGGGCTATTAAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGCGCGT	2521
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Sbjct	2522		TTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCT	2581
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Sbjct	2582		CGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTTTTTGTGTCCTTCCCTCGTGTT	2641
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Sbjct	2642		CTTCTGCTTTTGCCTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCAGCCTACGCCCTCTA	2701
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Sbjct	2702		CGGGATATGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGACTGGA	2761
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Sbjct	2762		CACGGAGGTGGCCGCGTCGTGTGGCGGCCTTGTTCCTTGTTCGGGTAAATGGCGCTGACTCT	2821
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Sbjct	2822		GTCGCCATACTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGAC	2881
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Sbjct	3001		TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCT	3060
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Sbjct	3061		ACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAG	3120
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Sbjct	3121		GTCATTACGTGCAAATGATCTTCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATA	3180
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Sbjct	3181		ACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTG	3240
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Sbjct	3241		TGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCG	3300
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Sbjct	3301		CCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAGGGGCCAGGAGATAC	3360
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Sbjct	3361		TGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGGCGCCCATCACGG	3420
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Sbjct	3421		CGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGG	3480
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Sbjct	3541		CAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCG	3600
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Sbjct	3601		CATCACCCAAGGGTCTGTTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGTGGGCT	3660
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Sbjct	3661		GGCCCGTCTCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTT	3720
Query	3733		ACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTA	3792
Sbjct	3721		ACCTGGTCACGAGGCACGCCGATGTCATTCCCTGTGCGCCGGCAAGGTGATAGCAGGGGTA	3780
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Sbjct	3781		GCCTGCTTTTCGCCCCGGGCCATTTCCCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGT	3840
Query	3853		GCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTA	3912
Sbjct	3841		GCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTA	3900
Query	3913		AAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTC	3972
Sbjct	3901		AGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGTGTTC	3960
Query	3973		CGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTC	4032
Sbjct	3961		CGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTC	4020
Query	4033		CCACCGGCAGCGGTAAGAGCACCAAGGTCCCGCTGCGTACGCAGCCCAGGGCTACAAGG	4092
Sbjct	4021		CCACCGGCAGCGGTAAGAGCACCAAGGTCCCGCTGCGTACGCAGCTCAGGGCTATAAGG	4080
Query	4093		TGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGG	4152
Sbjct	4081		TGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGG	4140
Query	4153		CCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCA	4212

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Query	4213	TCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATG	4272
Sbjct	4201	 TCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATG	4260
Query	4273	ACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCA	4332
Sbjct	4261	 ACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCA	4320
Query	4333	CTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCC	4392
Sbjct	4321	 CTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGCTACCC	4380
Query	4393	CTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCG	4452
Sbjct	4381	 CTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCG	4440
Query	4453	GAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATC	4512
Sbjct	4441	 GAGAGATCCCTTTTTACGGCAAGGCCATCCCTCTCGAGGTGATCAAGGGGGGAAGACATC	4500
Query	4513	TCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGG	4572
Sbjct	4501	 TCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCACTGG	4560
Query	4573	GCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGTCTGTCAATCCCGACCAGCGGCG	4632
Sbjct	4561	 GCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGTCTGTCAATCCCGCCAGCGGCG	4620
Query	4633	ATGTTGTGTCGTGTCGACCGAIGCTCTCATGACTGGCTTTACCGCGACTTCGACTCTG	4692
Sbjct	4621	 ATGTTGTGTCGTGTCGACCGAIGCTCTCATGACTGGCTTTACTGGCGACTTCGACCCTG	4680
Query	4693	TGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTGACCCTACCTTTA	4752
Sbjct	4681	 TGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCTTGACCCTACCTTTA	4740
Query	4753	CCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGA	4812
Sbjct	4741	 CCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGA	4800
Query	4813	CTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCCTCCGGCA	4872
Sbjct	4801	 CTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTTGCACCGGGGAGCGCCCCCTCCGGCA	4860
Query	4873	TGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCA	4932
Sbjct	4861	 TGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCA	4920
Query	4933	CGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGT	4992
Sbjct	4921	 CGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGT	4980
Query	4993	GCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTCATATAGATGCCC	5052
Sbjct	4981	 GCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCCTCACTCATATAGATGCCC	5040
Query	5053	ACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAG	5112
Sbjct	5041	 ACTTTCTATCCCAGACAAAGCAGAGCGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAG	5100
Query	5113	CCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTT	5172
Sbjct	5101	 CCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTT	5160
Query	5173	TGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTG	5232
Sbjct	5161	 TGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTG	5220
Query	5233	TTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATGTCGG	5292
Sbjct	5221	 TTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGG	5280
Query	5293	CCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGG	5352

Sbjct	5281	CCAACCCGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTCGGCTGCTCTGG	5340
Query	5353	CCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGA	5412
Sbjct	5341	CCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGTCTTGTCCGGGA	5400
Query	5413	AGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGT	5472
Sbjct	5401	AGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGT	5460
Query	5473	GCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGA	5532
Sbjct	5461	GCTCTCAGCACTTACCGTACATCGAACAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGG	5520
Query	5533	AGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCC	5592
Sbjct	5521	AGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCACCCCTGCTGTCC	5580
Query	5593	AGACCAACTGGCAGAAACTCGAGGTCCTTTGGGCGAAGCACATGTGGAATTCATCAGTG	5652
Sbjct	5581	AGACCAACTGGCAGAAACTCGAGGCCTTCTGGGCGAAGCACATGTGGAATTCATCAGTG	5640
Query	5653	GGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCGCCATTGCTTCATTGA	5712
Sbjct	5641	GGACACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCGCCATTGCTTCATTGA	5700
Query	5713	TGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCCTCCTCTTCAACA	5772
Sbjct	5701	TGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTAGCCAAACCCCTCCTCTTCAACA	5760
Query	5773	TATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCGCTACTGCCTTTGTGG	5832
Sbjct	5761	TATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCGGTCGCCGCTACCGCCTTTGTGG	5820
Query	5833	GTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACA	5892
Sbjct	5821	GCGCTGGCCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACA	5880
Query	5893	TTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCG	5952
Sbjct	5881	TACTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCCCTTGTGGCATTCAAGATCATGAGCG	5940
Query	5953	GTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAG	6012
Sbjct	5941	GTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAG	6000
Query	6013	CCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGG	6072
Sbjct	6001	CCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGG	6060
Query	6073	GGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCC	6132
Sbjct	6061	GGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTCTCCC	6120
Query	6133	CCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCC	6192
Sbjct	6121	CCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAACC	6180
Query	6193	TCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTC	6252
Sbjct	6181	TCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAGGCTCGGAGTGTAACCACTC	6240
Query	6253	CATGCTCCGGTTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACT	6312
Sbjct	6241	CATGCTCCGGTTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACT	6300
Query	6313	TTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCT	6372
Sbjct	6301	TTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCT	6360
Query	6373	GCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACT	6432
Sbjct	6361	GCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACT	6420
Query	6433	GTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGA	6492

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Sbjct  6421  |||||GGGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTCTAGGA 6480
Query  6493  CCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTA 6552
Sbjct  6481  CCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTA 6540
Query  6553  CTCCCCCTTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACG 6612
Sbjct  6541  CTCCCCCTTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACG 6600
Query  6613  TGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTA 6672
Sbjct  6601  TGGAGATAAAGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACTACTGACAATCTTA 6660
Query  6673  AATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTACAGAATTGGACGGGGTGCGCCTAC 6732
Sbjct  6661  AATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTACAGAATTGGACGGGGTGCGCCTAC 6720
Query  6733  ACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGAC 6792
Sbjct  6721  ATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGAC 6780
Query  6793  TCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGT 6852
Sbjct  6781  TCCACGAGTACCCGGTGGGGTCGCAACTACCTTGCGAGCCCGAACCGGACGTAGCCGTGT 6840
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Sbjct  6841  TGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGGAGGTTGG 6900
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Sbjct  6901  CGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTC 6960
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Sbjct  6961  TCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACC 7020
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Sbjct  7021  TCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGG 7080
Query  7093  TGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTAC 7152
Sbjct  7081  TGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTAC 7140
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Sbjct  7141  CCGCAGAAATTCTGCGGAAGTCTCAGAGATTGCCCCGGGCCCCGCCCCGTTTGGGCGCGGC 7200
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Sbjct  7201  CGGACTACAACCCCCCGCTAATAGAGACGTGGAAAGAGCCTGACTACGAACCACCTGTGG 7260
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Sbjct  7261  TCCATGGCTGCCCCGTTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGAAAAAGC 7320
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Sbjct  7321  GTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAA 7380
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Sbjct  7381  GTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGC 7440
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Sbjct  7501  TGGAGGGGGAGCCTGGGGACCCGGATTTAGCGACGGGTCATGGTCGACGGTCAGTAGTG 7560
Query  7573  GGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGACAGGCGCACTCG 7632
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Sbjct	7561		7620
Query	7633	TCACCCCGTGC	7692
Sbjct	7621	TCACCCCGTGC	7680
Query	7693	TACGCCATCACA	7752
Sbjct	7681	TACGCCATCACA	7740
Query	7753	AAGTCACATTTG	7812
Sbjct	7741	AAGTCACATTTG	7800
Query	7813	TCAAAGCAGCGG	7872
Sbjct	7801	TCAAAGCAGCGG	7860
Query	7873	TGACGCCCCCAC	7932
Sbjct	7861	TGACGCCCCCAC	7920
Query	7933	ATGCCAGAAAGG	7992
Sbjct	7921	ATGCCAGAAAGG	7980
Query	7993	TAACACCAATAG	8052
Sbjct	7981	TAACACCAATAG	8040
Query	8053	AGGGGGGTCGTA	8112
Sbjct	8041	AGGGGGGTCGTA	8100
Query	8113	AGAAGATGGCCCT	8172
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Query	8173	ACGGATTCCAATA	8232
Sbjct	8161	ACGGATTCCAATA	8220
Query	8233	AGAAGACCCCGAT	8292
Sbjct	8221	AGAAGACCCCGAT	8280
Query	8293	GCGACATCCGTAC	8352
Sbjct	8281	GCGACATCCGTAC	8340
Query	8353	TGGCCATCAAGTCC	8412
Sbjct	8341	TGGCCATAAAGTCC	8400
Query	8413	GGGAAAAC	8472
Sbjct	8401	GGGAAAAC	8460
Query	8473	ACACCCTCACTTG	8532
Sbjct	8461	ACACCCTCACTTG	8520
Query	8533	GCACCATGCTCGT	8592
Sbjct	8521	GCACCATGCTCGT	8580
Query	8593	AGGACGCGGCGAG	8652
Sbjct	8581	AGGACGCGGCGAG	8640
Query	8653	gggacccccACA	8712
Sbjct	8641	GGGACCCCCACA	8700
Query	8713	CAGTCGCCCACGAC	8772

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Sbjct  8701  |||||CAGTCGCCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCC 8760
Query   8773  CCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCA 8832
Sbjct  8761  CCCTCGCAAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCA 8820
Query   8833  ACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTGATGACCCATTTCTTTA 8892
Sbjct  8821  ACATAATCATGTTTGCCCCCAGCTGTGGGCGAGGATGATACTGATGACCCATTTCTTTA 8880
Query   8893  GCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCT 8952
Sbjct  8881  GCGTCCTCATAGCCAGGGATCAGTTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCT 8940
Query   8953  GCTACTCCATAGAACCAGCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCG 9012
Sbjct  8941  GCTACTCCATAGAACCAGCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCG 9000
Query   9013  CATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAA 9072
Sbjct  9001  CATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAA 9060
Query   9073  AACTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCGTCCGCGCTAGGC 9132
Sbjct  9061  AACTTGGGGTTCGCGCCCTTGCGAGCTTGGAACACCGGGCCCGGAGTGTCCGCGCTAGGC 9120
Query   9133  TTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAA 9192
Sbjct  9121  TTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAA 9180
Query   9193  GAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGTTGGT 9252
Sbjct  9181  GAACAAAGCCCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGTTGGT 9240
Query   9253  TCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCCGGCCCCGCT 9312
Sbjct  9241  TCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCCGGCCCCGCT 9300
Query   9313  GGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACC 9372
Sbjct  9301  GGTCCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACC 9360
Query   9373  GATGA 9377
Sbjct  9361  GATGA 9365

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>**dbj|DI026879.1** A detecting method of hepatitis C virus using recombinant mixed antigens derived from HCV and a diagnostic kit thereof
Length=9618

Score = 1.541e+04 bits (8342), Expect = 0.0
Identities = 9205/9627 (95%), Gaps = 37/9627 (0%)
Strand=Plus/Plus

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Query   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query   121     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query   181     GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Sbjct   181     GACGACCGGGTCCTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Query   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct   241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

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Query	301	GTGCTTGCAGAGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGAGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
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Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTGC GGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
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Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
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Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
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Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
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Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAAC TGTTCACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCATATAACGGGTATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGTATATAACGGGTACCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGCATCCCAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCTATGGTGGGAA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGACCACGGCTGGG-CTTGTTGGTCT-CCTTACACCAGG	1558
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Query	1559	CGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAATGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CCTGAACTGCAATGATAGCCTTAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAA	1678
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Sbjct	1679	GTTCAACTCTTCAGGCTGCCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGA	1738
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Sbjct	1739	CCAGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACCAGCGCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	CTGGCACTACCCCCAAAACCTTGCGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGAAAACGATACGGACGTTTTTCGTCTTAACAATACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCCTTGTGTCTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCTCCTTGTGTCTATCGGAGGGGCGGGCAACAACACCCTGCACTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAG	2158
Query	2159	GTGCATGGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCCTGGTTCGATTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTTAAAATTAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCTGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGTTGCGATCTGGAAGATAGGGACAGGTCCGAGCTCAGCCCGTTACT	2338
Query	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGACCACTACACAGTGGCAGGTCCTCCCCTGTTCTTCAACAACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Query	2459	GTCAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Sbjct	2459	GTCAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCT	2518
Query	2519	TGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGC	2578

Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGC	2698
Sbjct	2639	ATCCTTCCTCGTGTTCTTCTGCTTTGCATGGTATCTGAAGGGTAAGTGGGTGCCCCGAGC	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCG	2758
Query	2759	GGCATAACGCACTGGACACGGAGGTGGCCGCGTCTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Sbjct	2759	GGCGTACGCGCTGGACACGGAGGTGGCCGCGTCTGTGGCGGTGTTGTTCTCGTCGCGGTT	2818
Query	2819	AATGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	GATGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCT	2878
Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGT	2938
Query	2939	CCGAGGGGGCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTAT	2997
Sbjct	2939	CCGAGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTAT	2997
Query	2998	TTGACATACCAAATACTCTCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTT	3057
Sbjct	2998	TTGACATACCAAATTGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGCT	3057
Query	3058	TGCTTAAAGTCCCTACTTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGC	3117
Sbjct	3058	TGCTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCCTTCTCCGGTTCTGCGCGTTAGCGC	3117
Query	3118	GGAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct	3118	GGAAGATGGCCGGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTG	3177
Query	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAG	3237
Sbjct	3178	GCACCTATGTTTATAACCACTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTGCGAG	3237
Query	3238	ATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Sbjct	3238	ATCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGT	3297
Query	3298	GGGGGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Sbjct	3298	GGGGGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCGTGTTCCGCCCGCA	3357
Query	3358	GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Sbjct	3358	GGGGCCAGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Query	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA	3477
Sbjct	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCA	3477
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478	GCCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTG	3537
Query	3538	CCCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Sbjct	3538	CCCAAACCTTCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCG	3597
Query	3598	GAACGAGGACCATCGCATCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACC	3657
Sbjct	3598	GAACGAGGACCATCGCGTCACCAAGGGTCTGTCTATCCAGATGTATACCAATGTAGACC	3657
Query	3658	AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG	3717
Sbjct	3658	AAGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCG	3717

Query	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG	3777
Sbjct	3718	GCTCCTCGGACCTTTACCTGGTAACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGG	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAAGGCTCCTCGG	3837
Sbjct	3778	GTGATAGCAGGGGCAGCCTGCTGTGCGCCCCGGCCCATTTCTACTTGAAAAGGCTCCTCGG	3837
Query	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTACAGGGCCGCGGTGTGCA	3897
Sbjct	3838	GGGGTCCGCTGTTGTGCCCCGCGGGGACACGCCGTGGGTATATTTAGGGCCGCGGTGTGCA	3897
Query	3898	CCCGTGAGTGCGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898	CCCGTGAGTGCGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958	GATCCCCGGTGTTACAGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Sbjct	3958	GGTCCCCGGTGTTACAGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGG	4017
Query	4018	CCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4077
Sbjct	4018	CTCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAG	4077
Query	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Sbjct	4078	CTCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG	4137
Query	4138	CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Sbjct	4138	CTTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTA	4197
Query	4198	CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Sbjct	4198	CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Query	4258	CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Sbjct	4258	CGGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGC	4377
Sbjct	4318	TCTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGC	4377
Query	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCTAACATCGAGGAGGTTG	4437
Sbjct	4378	TCGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4438	CTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCA	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	AGGGGGGGAGACATCTCATCTTCTGTCAATTCAAAGAAGAAGTGCGACGAACCTCGCCGCAA	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCA	4617
Sbjct	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCA	4617
Query	4618	TCCCGACCAGCGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618	TCCCGACCAGCGGCGATGTTGTGTCGTGTCGCAACCGATGCCCTCATGACCGGCTATACCG	4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCC	4737
Sbjct	4678	GCGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACCAGACAGTCGATTTAGCC	4737
Query	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	TTGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTC	4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG	4857
Sbjct	4798	AACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGG	4857

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Query 4858 AGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG 4917
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Sbjct 4858 AGCGCCCCCTCTGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTG 4917

Query 4918 CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC 4977
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Sbjct 4918 CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC 4977

Query 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA 5037
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Sbjct 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCA 5037

Query 5038 CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACC 5097
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Sbjct 5038 CTCATATAGATGCCCACTTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097

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Sbjct 5158 AGATGTGGAAGTGTTTGATTGCGCTCAAGCCCACCCTCCATGGGCAACACCCCTGCTAT 5217

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Sbjct 5218 ACAGACTGGGCGTGTTTCAAGTGAAGTCAACCTGACGCACCCAGTACCAAATACATCA 5277

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Sbjct 5278 TGACATGCATGTCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337

Query 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397
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Sbjct 5338 TCCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGG 5397

Query 5398 TCGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG 5457
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Sbjct 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG 5517

Query 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA 5577
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Sbjct 5518 AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA 5577

Query 5578 TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT 5637
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Query 5638 GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCGTGGTAACCCCG 5697
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Query 5758 CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG 5817
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Query 5878 AGGTCCTCGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGAGCAT 5937
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Sbjct 5878 AGGTCCTCATAGACATCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGAGCAT 5937

Query 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA 5997
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Sbjct 5938 TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA 5997
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Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGC	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCAGC	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTCGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358	TCCCTTTGTGTCTCGCCAGCGCGGGTATAAGGGGGTCTGGCGAGGGGACGGCATCATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478	TCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACA	6537
Query	6538	CCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCCTGTACCCCCCTTCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGT-ATCGGGTATG	6656
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATG	6656
Query	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTG	6716
Sbjct	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGTCCCATCGCCCGAATTTTTCACAGAATTG	6716
Query	6717	GACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTA	6776
Sbjct	6717	GACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTA	6776
Query	6777	TCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAA	6836
Sbjct	6777	TCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTTCGCAATTACCTTGCGAGCCCGAA	6836
Query	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCG	6896
Sbjct	6837	CCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCG	6896
Query	6897	GCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6897	GCCGGGCGGAGGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCA	6955
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Sbjct	6956	GCTATCCGCTCCATCTCTCAAGGCAACTTGACACGCTAACCATGACTCCCCTGATGCTGA	7015
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	7016	GCTCATAGAAGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Query	7076	GTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7076	GTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGA	7135

Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCT	7195
Sbjct	7136	GCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCT	7195
Query	7196	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7196	GCCCGTTTGGGCGCGGCCGGACTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCCGA	7255
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7256	CTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCC	7315
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCTCCTACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7316	TCCGCCTCGGAAGAAGCGGACGGTGGTCTCCTACTGAATCAACCCTATCTACTGCCTTGGC	7375
Query	7376	CGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7376	CGAGCTTGCCATCAAAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTA	7495
Sbjct	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCGCGGACTCCGACGCTGAGTCCTA	7495
Query	7496	TTCTTCCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7496	TTCTTCCATGCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATG	7555
Query	7556	GTCGACGGTCAGTAGTGGGGCC-GACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7556	GTCAACGGTCAGTAGTGAGGCCAG-CGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAGGAACAGAAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCT-GGTGTATTCCACCACCTTACGCAGT	7733
Sbjct	7675	CACTGAGCAACTCGTTGCTACGTACCACAA-CTTGGTGTATTCCACCACCTCAGGCAGT	7733
Query	7734	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7734	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Query	7794	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7794	CAGGACGTGCTCAAGGAGGTTAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCC	7853
Query	7854	GTAGAGGAAGCTTGACGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGG	7913
Sbjct	7854	GTAGAGGAAGCTTGACGCCTGACGCCCCACACTAGCCAAATCCAAGTTTGGTTATGGG	7913
Query	7914	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7914	GCAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAA	7973
Query	7974	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGGTT	8033
Sbjct	7974	GACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAAGAGGTT	8033
Query	8034	TTCTGCGTTTACGCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTGAC	8093
Sbjct	8034	TTCTGCGTTTACGCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTGAT	8093
Query	8094	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8153
Sbjct	8094	CTGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTACCAAGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273

Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAAGCTATGACC	8633
Query	8634	AGGTACTCCGAAAAAAAAAGGACCAACAGAAATACGACTTGAGGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCCCCGGGGACCCCCACAACAGAAATACGACTTGAGGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	CTGATGACCCATTTCTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGAT	8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934	TGCGAGATCTACGGGGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Query	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCC	9113
Sbjct	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTACCGCCCTTGCAGCTTGGAGACACCGGGCC	9113
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	CGGAGCGTCCGCGCTAGGCTTCTGGCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGG	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCAG	9233
Query	9234	CTGGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9234	CTGGACTTGTCCGGCTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Query	9294	TCTCATGCCCGGCCCGCTGGTTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9294	TCTCATGCCCGGCCCGCTGGTTTTCTGGTTTTGCCTACTCCTGCTTGTGCTGCAGGGGTAGGC	9353
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT	9413
Sbjct	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTT	9413

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Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCGGCCTACCAAGTGCGCAATTCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGC	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTG	1140
Sbjct	1081	CCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAAC TGTTCACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCCAAAACCTTGC GGTATTGTGCCCCGCAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCT	1920

Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTGCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTGCATCGGAGGGGCGGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCTTCCCGTGTTCTTTCACAACCCTACCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTGTA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCAATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTT???????TCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941	???????CGCGATGCCGTCACTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCACTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059

Query	3060	CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCGTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACAAGGGGCCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTAC	4198

Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACCTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTTCGGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTGCGCTCAAGCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTTCGGCCGACCTGGAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGT	5338

Query	5339	CCTGGCTGCTCTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	 CCTGGCTGCTTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	 CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	557
Sbjct	5518	 AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	 TCGCCCCCTGCTGTCCAGACCAACTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	 GGAACTTTCATCAGTGGGATACAATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTTCATTGATGGCTTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698	 CCATTGCTTTCATTGATGGCTTTTTACAGCTGCTGTCACCAGCCCACTAACCCTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	 CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	 CTACTGCCTTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	 AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Sbjct	5938	 TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCCCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	 TCCTCTCGCCCCGAGCCCTCGTAGTCGGCGTGGTCTGTGACAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	 TTGGCCCCGGGCGAGGGGGCAGTGCAAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118	 GGAACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	 CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTAACCACTCCATGCTCCGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	 CGGAGTGTAACCACTCCATGCTCCGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	 AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	 TCCCTTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	 CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476

Query	6477	ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
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Query	6537	ACCACGGGCCCCCTGTACTCCCTTCCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCCCTTCCCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTTACAGAATT	6715
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Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776	ATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCTTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCAGGCC	7194
Query	7195	TGCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCCGCCCTTCTGGCTG????GACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCCGCCCTTCTGGCTGCCCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCTTCCATGCCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614

Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGC	7674
		CTGGACAGGCGCACTCGTCACCCCGTGC	
Sbjct	7615	CTGGACAGGCGCACTCGTCACCCCGTGC	7674
		CTGGACAGGCGCACTCGTCACCCCGTGC	
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACA	7734
		CACTGAGCAACTCGTTGCTACGCCATCACA	
Sbjct	7675	CACTAAGCAACTCGTTGCTACGCCATCACA	7734
		CACTAAGCAACTCGTTGCTACGCCATCACA	
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTT	7794
		CTTGCCAAAGGCAGAAGAAAGTCACATTT	
Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTT	7794
		CTTGCCAAAGGCAGAAGAAAGTCACATTT	
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCG	7854
		AGGACGTGCTCAAGGAGGTCAAAGCAGCG	
Sbjct	7795	AGGACGTACTCAAGGAGGTCAAAGCAGCG	7854
		AGGACGTACTCAAGGAGGTCAAAGCAGCG	
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCAC	7914
		TAGAGGAAGCTTGCAGCCTGACGCCCCAC	
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCAC	7914
		TAGAGGAAGCTTGCAGCCTGACGCCCCAC	
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAG	7974
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Sbjct	7975	ACCTTCTGGAAGACAATGTAAACCAATAG	8034
		ACCTTCTGGAAGACAATGTAAACCAATAG	
Query	8035	TCTGCGTTTTCAGCCTGAGAAGGGGGTTC	8094
		TCTGCGTTTTCAGCCTGAGAAGGGGGTTC	
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Query	8095	TGGGCGTGC	8153
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Sbjct	8095	TGGGCGTGC	8153
		TGGGCGTGC	
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCA	8213
		GCCGTGATGGGAAGCTCCTACGGATTCCA	
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		GCCGTGATGGGAAGCTCCTACGGATTCCA	
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		GTGCAAGCGTGGAAGTCCAAGAAGACCCG	
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		GTGCAAGCGTGGAAGTCCAAGAAAACCCCA	
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		GACTCCACAGTCACTGAGAGCGACATCCGT	
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		GACTCCACAGTCACTGAGAGCGACATCCGT	
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAG	8393
		CTGGACCCCCAAGCCCGCGTGGCCATCAAG	
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAG	8393
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Query	8394	CCTCTTACCAATTCAAGGGGGGAAAAC	8453
		CCTCTTACCAATTCAAGGGGGGAAAAC	
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACT	8453
		CCTCTTACCAATTCAAGGGGGGAGAACT	
Query	8454	CTGACAAC	8513
		CTGACAAC	
Sbjct	8454	CTGACAAC	8513
		CTGACAAC	
Query	8514	GCCGCGAGGGCTCCAGGACTGCACCATGCT	8573
		GCCGCGAGGGCTCCAGGACTGCACCATGCT	
Sbjct	8514	GCCGCGAGGGCTCCAGGACTGCACCATGCT	8573
		GCCGCGAGGGCTCCAGGACTGCACCATGCT	
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Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGC	8633
		GAAAGCGCGGGGGTCCAGGAGGACGCGGC	
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		AGGTACTCCG	
Sbjct	8634	AGGTACTCCG	8693
		AGGTACTCCG	
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCAC	8753
		TCATGCTCCTCCAACGTGTCAGTCGCCAC	
Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCAC	8753
		TCATGCTCCTCCAACGTGTCAGTCGCCAC	

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Query 8754 ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA 8813
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Sbjct 8754 ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA 8813

Query 8814 GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA 8873
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Sbjct 8814 GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA 8873

Query 8874 CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC 8933
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Sbjct 8874 CTGATGACCCATTTCTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGAT 8933

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Query 9054 GTGGCCGCATGCCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC 9113
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Sbjct 9054 GTGGCCGCATGCCTCAGAAAACCTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCC 9113

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Query 9174 CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG 9233
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Query 9234 CTGGACTTGTCGGGTTGGTTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG 9293
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Query 9354 ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT 9401
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Sbjct 9354 ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT 9401
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>**dbj|BD295096.1** | NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS
C VIRUS
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG 60
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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120
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Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120

Query 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

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Sbjct 181 GACGACCGGGTCCTTTCTTGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240

Query 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

Query 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC 360
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Sbjct	301	GTGCTTGCAGTGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
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Query	421	GCGGTTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
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Sbjct	481	GCGCGACGAGAAAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Sbjct	841	GGAACCTTCTTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCGGCCTACCAAGTGCGCAATTCACAGGGGCTTTACCACGTACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
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Sbjct	1201	TCGGCCAAC TGTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500

Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
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Sbjct	1621	TGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
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Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCT	1800
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Sbjct	1801	GGCACTACCCCCAAAACCTTGCGGTATTGTGCCCAGAAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTATCGGAGGGGCGGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTGGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
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Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGC	2340
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Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCCTGTTCTTTCACAACCCTACCAGCCTTGTTCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640

Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGG	2700
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Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
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Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTGA	2820
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Sbjct	2821	TGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATACCAAATACTCTCGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATACCAAATTGCTGTGTCGCCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGAG	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATACCCAAGGGTCCTGTTCATCCAGATGTATAACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTTCATCCAGATGTATAACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTACATTCCTGCGCCGCGCAGG	3778

Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACAGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACAGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGTGCGATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG	4138
Query	4139	TTACATGTCCAAGGCCCATGCGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACCTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACCTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTGCGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918

Sbjct	4859	GCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCC GTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCC GTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAGAAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTTCGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTTCGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTAGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACACAGCCCACTAACCCTAGGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057

Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTGTGTCTCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCTTCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTTACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCGAATTTTTTACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776	ATCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACACCGCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074
Sbjct	7015	AGTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074
Query	7075	AGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194

Sbjct	7135	AGCGGGAGATCTCCGTACCCGAGAAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCC	7194
Query	7195	TGCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCGCGGAGCTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGCGCGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCTTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAGAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTG	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTACCACAATTTGGTGTATTCCACCACCTTACGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTTCAAGCCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACC	8094
Sbjct	8035	TCTGCGTTTCAAGCCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333

Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACCTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCCGGGCAGCCTGTCTGA	8513
Sbjct	8454	CTGACAACCTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCCGGGCAGCCTGTCTGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAGAATACGACTTGGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	CTGATGACCCATTTCTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGAT	8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934	TGCGAGATCTACGGGGCCTGCTACTCCATAGAACCCTTGATCTACCTCCAATCATTCAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG	9053
Query	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGAGACACCGGGCC	9113
Sbjct	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTACCGCCCTTGCGAGCTTGAGAGACACCGGGCC	9113
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	CGGAGCGTCCGCGCTAGGCTTCTGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAG	9233
Query	9234	CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9234	CTGGACTTGTCCGGCTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Query	9294	TCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9294	TCTCATGCCCGGCCCCGCTGGATCTGGTTTTGCCTACTCCTGCTTGCTGCAGGGGTAGGC	9353
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT	9401
Sbjct	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT	9401

Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCAGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTGAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCG	1020
Query	1021	TCCCTTGCGTTGCGGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080

Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCTC GAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAAC TCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	 CCACCAGGGATGGCAAAC TCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	 GGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	 TCGGCCAAC TGTTCACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	 CTATCTATCCCGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	 CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	 TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGACACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	 TCACCGGGGGAAATGCCGGCCACACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	 CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	 TGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	 TCAACTCTTCAGGCTGTCTGAGAGGTTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCC GAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	 GGCACTACCCCCAAAACCTTGCGGTATTGTGCCC GCGAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	 ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	 ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	 GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	 CTCCTTGTGTCATCGGAGGGGCGGGCAACAACACCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	 GCAAGCATCCGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220

Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCCTGTTTCTTACAAACCCTACCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTGA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGCTGGTGCCTTGTTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATACCAAATTGCTGCTGGCCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358

Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCCGAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTCGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCATATTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACGGAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498

Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499		4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559		4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619		4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCT	4738
Sbjct	4679		4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739		4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799		4858
Query	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859		4918
Query	4919	TTGGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919		4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979		5038
Query	5039	TCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039		5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099		5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159		5218
Query	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTACACCTGACGCACCCAATACCAAATACATCAT	5278
Sbjct	5219		5278
Query	5279	GACATGCATGTGCGCCGACCTGGAGGTCTGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279		5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339		5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399		5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458		5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637

Sbjct	5578	TCGCCCCCTGCTGTCCAGACCAACTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTTGTGTCTTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCTTCTGCGCCGAACACAGTTCGCGCTATGGAGGGTG	6596
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Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
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>**gb|AR176483.1|AR176483** Sequence 9 from patent US 6312889
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGTCCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTGCCCCGGGCCATTTCCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078

Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACCAGACAGTCGATTTACGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATA	5218

Sbjct	5159	GATGTGGAAGTGTGTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAGAATGAAATCACCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAAGTGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357

Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTGTGTCTCTGCCAGCGCGGGTATAAGGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCTTCTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCTTCTCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAAGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTTACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCGAATTTTTTACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTTCGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTTCGCGCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776	ATCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074
Query	7075	AGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCAGGCC	7194
Query	7195	TGCCCCGTCTGGGCGCGGCCGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCCGTTTGGGCGCGGCCGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCCTACCACTCCACGGTCCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCGGGGAGCTCCGACGTTGAGTCCT	7494

Sbjct	7435	CGACAACATCCTCTGAGCCCCGCCCTTCTGGCTGCCCCCCC	7494
Query	7495	ATTCTTCCATGATGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCTTCCATGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGGGGCCGACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAGAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTG	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTCACCACAATTTGGTGTATTCCACCACCTTACGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACC	8094
Sbjct	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCAGGCTATCGCAGGTGCCGCGCAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCAGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACC	8633

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAAGTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCC	240

Sbjct	181	GACGACCGGGTCCTTTTCTTGATCAACCCGCTCAATGCCTGGAGATTG	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241		300
Query	301	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG	360
Sbjct	301	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	540
Query	541	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCA	600
Sbjct	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	900
Sbjct	841	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Query	901	GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	960
Sbjct	901	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	TGCCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1080
Sbjct	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1140
Sbjct	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	CCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Query	1201	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CTATCTATCCCGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAACTGGT	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACA	1380

Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGACACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCT	1800
Query	1801	GGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCCAAAACCTTGCGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGGCGGGCAACAACACCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCCTGTTTCTTACAACCTACCAGCCTTGTTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520

Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATACCAAATTGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCCTCTGCCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATACCCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCA	3658

Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACGGATAAATCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGTGCGATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACCTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACCAGACAGTCGATTTACGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798

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Sbjct	5878	AGGTCCTCATAGACATCCTTG CAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCCCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCCGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTGTGTCTTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCCCTTCCTGCGCCGAACATACAGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTTACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCGAATTTTTTACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776	ATCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074

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Sbjct 7015 AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG 7074
Query 7075 AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG 7134
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Sbjct 7075 AGTCAGAAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG 7134
Query 7135 AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCC 7194
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Sbjct 7135 AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCC 7194
Query 7195 TGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG 7254
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Sbjct 7195 TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCCG 7254
Query 7255 ACTACGAACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGC 7314
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Sbjct 7255 ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC 7314
Query 7315 CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG 7374
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Sbjct 7315 CTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGG 7374
Query 7375 CCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA 7434
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Sbjct 7375 CCGAGCTCGCCACCAGAAGCTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA 7434
Query 7435 CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG???????GACTCCGACGTTGAGTCCT 7494
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Sbjct 7435 CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCT 7494
Query 7495 ATTCTTCCATG???????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT 7554
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Sbjct 7495 ATTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT 7554
Query 7555 GGTGACAGGTCTAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT 7614
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Sbjct 7555 GGTCAACGGTCTAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT 7614
Query 7615 CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACG 7674
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Sbjct 7615 CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAGAACTGCCCATCAATG 7674
Query 7675 CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTCACGCAGTG 7734
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Sbjct 7675 CACTAAGCAACTCGTTGCTACGTACCACAATTTGGTGTATTCCACCACCTCACGCAGTG 7734
Query 7735 CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC 7794
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Sbjct 7735 CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC 7794
Query 7795 AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG 7854
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Sbjct 7795 AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG 7854
Query 7855 TAGAGGAAGCTTGACAGCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGG 7914
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Sbjct 7855 TAGAGGAAGCTTGACAGCTGACGCCCCACACTAGCCAAATCCAAGTTTGGTTATGGGG 7914
Query 7915 CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAG 7974
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Sbjct 7915 CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG 7974
Query 7975 ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT 8034
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Sbjct 7975 ACCTTCTGGAAGACAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT 8034
Query 8035 TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACC 8094
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Sbjct 8035 TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATC 8094
Query 8095 TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG 8153
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Sbjct 8095 TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTG 8153
Query 8154 GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC 8213
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Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGAAAAAAAAAGGGGACCAACCAACAGAAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAACAGAAATACGACTTGGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
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Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934	TGCGAGATCTACGGGGCCTGCTACTCCATAGAACCACCTGATCTACCTCCAATCATTCAA	8993
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Sbjct	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG	9053
Query	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Sbjct	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	CGGAGCGTCCGCGCTAGGCTTCTGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGG	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCAG	9233
Query	9234	CTGGACTTGTCCGGTTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9234	CTGGACTTGTCCGGCTGGTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Query	9294	TCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGC	9353

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Sbjct  9294  TCTCATGCCCCGCCCCGCTGGATCTGGTTTTGCCTACTCCTGCTTGCTGCAGGGGTAGGC  9353
Query   9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT  9401
          |||
Sbjct   9354  ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT  9401
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>**gb|I81885.1|I81885** Sequence 9 from patent US 5712087
Length=9401

Score = 1.520e+04 bits (8231), Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query    1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG  60
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Sbjct    1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG  60

Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGA  120
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Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGAC  120

Query   121      CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
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Sbjct   121      CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180

Query   181      GACGACCGGGTCCTTTCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCC  240
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Sbjct   181      GACGACCGGGTCCTTTCTTGATCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCC  240

Query   241      GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG  300
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Sbjct   241      GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG  300

Query   301      GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360
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Sbjct   301      GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360

Query   361      CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG  420
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Query   421      GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC  480
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Sbjct   421      GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC  480

Query   481      GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA  540
          |||
Sbjct   481      GCGCGACGAGAAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA  540

Query   541      AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG  600
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Sbjct   541      AGGCTCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATG  600

Query   601      GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT  660
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Sbjct   601      GCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT  660

Query   661      GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA  720
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Sbjct   661      GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA  720

Query   721      CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG  780
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Sbjct   721      CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG  780

Query   781      CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG  840
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Sbjct   781      CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG  840

Query   841      GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG  900
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Sbjct   841      GGAACCTTCTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG  900

Query   901      TGCCCGCTTACGCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT  960
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Sbjct	901	TGCCCCGCTTCGGCCTACCAAGTGC	GCAACTCCACGGGGCTTTACCACGT	CACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG			1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG			1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG			1080
Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG			1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG			1140
Sbjct	1081	CCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCTG			1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG			1200
Sbjct	1141	GGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTG			1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT			1260
Sbjct	1201	TCGGCCAAC TGTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT			1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCA	TGCGATGGGATATGATGATGA	ACTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCA	CCCGCATGGCATGGGATATGATGATGA	AACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA			1380
Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA			1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA			1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA			1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG			1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG			1500
Query	1501	TCACCGGGGGAATGCCGGCCGACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG			1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCG			1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT			1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC			1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT			1680
Sbjct	1621	TGAAGTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT			1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC			1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTAGCCAGCTGCCGACCCCTTACCGATTTTGACC			1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT			1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCTACTGCT			1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCC	GAAAGAGCGTGTGTGGCCCGGTAT		1860
Sbjct	1801	GGCACTACCCCCAAAACCTTGCGGTATTGTGCCC	GCGAAGAGTGTGTGTGGTCCGGTAT		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT			1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCT			1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG			1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGG			1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC			2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC			2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC			2100

Sbjct	2041	CTCCTTGTGTCATCGGAGGGGCGGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGC	2340
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Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCCTGTTTCTTACAAACCCTACCAGCCTTGTTCCA	2400
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Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
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Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
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Sbjct	2881	AGTATTTTCTGACCAGAGTGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATACCAAATTGCTGCTGGCCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCAATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238

Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATAACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTTCATCCAGATGTATAACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378

Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAAATGAAGTACCCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAGAAATGAAATCACCCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTGCGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTGCGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517

Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAG	6057
Sbjct	5998	TCCTCTCGCCCGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCAG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTGTGTCTTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCTTCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655

Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCCTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTTCGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTTCGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTGAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776	ATCATTGAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCC	7194
Query	7195	TGCCCCGTCTGGGCGCGGCCGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCCGTTTGGGCGCGGCCGACTATAACCCCCCGCTAGTAGGAGACGTGGAAAAAGCCCC	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAAGCTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCGCGGAGCTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGCGCGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCTTCCATGCCCCCTTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAGAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTCACGCAGTG	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTACCACAATTTGGTGTATTCCACCACCTCACGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794

Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTTCAAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACC	8094
Sbjct	8035	TCTGCGTTTCAAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCAGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGgaggggaggggaggggACAACCAGAATACGACTTGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAGAATACGACTTGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTGAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933

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Sbjct	481	GCGCGACGAGAAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCGGCCTACCAAGTGC GCAACTCCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAAC TGTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACACA	1380
Query	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAATGCCGGCCGACACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTGTTAGCCTCCTCGCACACAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Sbjct	1621	TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCT	1800
Query	1801	GGCACTACCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCCAAAACCTTGCGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCT	1920
Query	1921	ACAGCTGGGGTGC AAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTATCGGAGGGGCGGGCAACAACACCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTGGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTTCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCC GTGTTCTTCAACAACCTACCAGCCTTGTTCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCGGGCCATTAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAA	2820

Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941	CGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATACCAAATTGCTGCTGGCCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATACCCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGTCCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGTCCGCAAGGTAGCCGCTCATTGACACCCTGCACCTTGC	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTGCCCCGGCCATTTCCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958

Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTACGGATAA	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGTGCGTATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACGTGCTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCGACGAACCTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCAACCAGACAGTCGATTTACGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTGCGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCT	5098

Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTTCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTTCGGCCGACCTGGAGGTGCTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAAGTCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCTGCTGTCCAGACCAACTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237

Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCTGCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCTTTGTGTCTGCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTAC	6536
Query	6537	ACCACGGGCCCCCTGTACTCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCCTGTACCCCCCTTCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAAGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTTACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776	ATCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATACCCCTTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGACCCGCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGACCCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTG	7074
Query	7075	AGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCC	7194
Query	7195	TGCCCCGTCTGGGCGCGGCCGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCCGTTTGGGCGCGGCCGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCCTACCACTCCACGGTCCCCTCCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG	7374

Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCCGCCCTTCTGGCTG-----GACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCCGCCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATG-----TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAGAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTG	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTACCACAATTTGGTGTATTCCACCACCTTACGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACC	8094
Sbjct	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCAGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513

Sbjct	8454	CTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	 GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	 GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCG ggggggggggacacccaacacagaatacgaacttgagagcttataaca	8693
Sbjct	8634	 AGGTACTCCGCCCCCCTGGGGACCCCCACAACCAGAATACGACTTGAGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	 TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	 ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	 GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	 CTGATGACCCATTTCTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGAT	8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934	 TGCGAGATCTACGGGGCCTGCTACTCCATAGAACCCTTGATCTACCTCCAATCATTCAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	 AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG	9053
Query	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCC	9113
Sbjct	9054	 GTGGCCGCATGCCTCAGAAAACCTTGGGGTACCGCCCTTGCGAGCTTGAGACACCGGGCC	9113
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	 CGGAGCGTCCGCGCTAGGCTTCTGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG	9233
Sbjct	9174	 CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAG	9233
Query	9234	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9234	 CTGGACTTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Query	9294	TCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9294	 TCTCATGCCCGGCCCCGCTGGATCTGGTTTTGCCTACTCCTGCTTGCTGCAGGGGTAGGC	9353
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT	9401
Sbjct	9354	 ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT	9401

>**dbj|DM170404.1|** HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGA	ACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGA	ACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	ooooooooooooTCCCGGGAGAGCCATA	142

Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGCACGTGCGCCCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGCTCGTCGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGCCAACTGTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAAC	1282

Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACCTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACC GATTTTGCCAGGGCTGGGGTCTTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACC GATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCC GAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCC GCGAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	2002
Sbjct	1921	GGACGCTTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTAAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCC T GCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCC GTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCC GTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422

Sbjct	2341	CCTCCCGTGTTCCCTTACAACCCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTTCCCTTCTGCTTGCAGACGCGCGCTCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTTCCCTTCTGCTTGCAGACGCGCGCTCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTCAACGTCCCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAACCTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560

Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTTCATTCCCCTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTTCATTCCCCTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTTCATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700

Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCCAGACAGTCGATTTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGCTATGACGCGAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGTTTCTTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCCTGTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	gggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839

Sbjct	5758	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTCGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTCGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTACACCACGGGCCCCTGTACCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTTCGCAATTACCTTGCAGGCCCGAACCAGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTTCGCAATTACCTTGCAGGCCCGAACCAGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976

Sbjct	6895	GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCCTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCGTGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTGATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7854
Query	7877	GCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCCAGACTGAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116

Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGC GGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGC GGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	ACAACCAACAACCAACAACCAACAACCAACAACCAACAACCAACAACCAACAACCAACAAC	8715
Sbjct	8634	ACCCCCACAACCAACAACCAACAACCAACAACCAACAACCAACAACCAACAACCAACAAC	8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	ACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCC GCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACC GCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA	9255

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Sbjct  9174  CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA  9233
Query   9256  CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGT  9315
      |||
Sbjct  9234  CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGGA  9293
Query   9316  TCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT  9375
      |||
Sbjct  9294  TCTGGTTTTGCCTACTCCTGCTTGTGTCAGGGGTAGGCATCTACCTCCTCCCAACCGAT  9353
Query   9376  GAAGGTTGGGGTAAACACTCCGGCCT  9401
      |||
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCCT  9379
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>**dbj|DL212380.1|** HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

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Query   23  CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG  82
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Sbjct   1  CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG  60
Query   83  CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA???????TCCCGGGAGAGCCATA  142
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Sbjct  61  CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA  120
Query   143  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA  202
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Sbjct  121  GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA  180
Query   203  TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT  262
      |||
Sbjct  181  TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT  240
Query   263  GTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG  322
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Sbjct  241  GTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG  300
Query   323  GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA  382
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Sbjct  301  GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA  360
Query   383  CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT  442
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Sbjct  361  CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT  420
Query   443  TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA  502
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Sbjct  421  TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA  480
Query   503  GCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGCCCAGGGGCAG  562
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Sbjct  481  GCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCCAAGGCTCGTCGGCCCAGGGGCAG  540
Query   563  GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC  622
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Sbjct  541  GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGTTCGCGGTGGGC  600
Query   623  GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCGGCG  682
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Sbjct  601  GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCGGCG  660
Query   683  TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT  742
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Sbjct  661  TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT  720
Query   743  GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG  802
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Sbjct  721  GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG  780
Query   803  CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCTGTTGCTCTTT  862
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Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCCTCCCTTGCGTTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACCTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGTCTAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGTCTAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACCTGAT	1582
Sbjct	1501	CACTGTGCTCGGATTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTG	2002

Sbjct	1921	GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCCTTACAACCCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAAGTGGGTGCCCAGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCGTCGGGTGATGGCGCTGACTCTGTCACCATA	2820
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Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
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Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140

Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	 GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	 ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	 GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	 GGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	 CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	 CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	 CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	 ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	 AAGGGTCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	 CCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	 ACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	 TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	 GGGCACGCCGTGGGCATATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	 GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	 TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	 AGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	 CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	 ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280

Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCAGCAGACTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCAGCAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCCAGACAGTCGATTTAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTGCG	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420

Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGGAAGTCCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTGGG	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558

Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTTGGCGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCTGTTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCCTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTAGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGGGGGGACTCCGACGTTGAGTCCTATTCTTCCATGGGGGCTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696

Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCCACACTAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG CAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG CAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTTCGTTATCTGTGAAAGTGC GGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTTCGTTATCTGTGAAAGC GC GGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG gggggggggggg	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG CCCCCCTGGGG	8633
Query	8656	gggggggACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	TCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCTGACCCTACAACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGCAACA	8835

Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	ACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA	9255
Sbjct	9174	CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA	9233
Query	9256	CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGT	9315
Sbjct	9234	CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGA	9293
Query	9316	TCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT	9375
Sbjct	9294	TCTGGTTTTGCCTACTCCTGCTTGTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT	9353
Query	9376	GAAGGTTGGGGTAAACACTCCGGCCT	9401
Sbjct	9354	GAAGGTTGGGGTAAACACTCCGGCCT	9379

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Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAAGAGAGAGCCATA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCTCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442

Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTACGCCCTATCCCCAAGGCACGTCGGCCCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTACGCCCTATCCCCAAGGCTCGTCGGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCCTCCCTTGCGTTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAAC TGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAAC TGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCAAGCAGAACATCCAAC TGAT	1582

Sbjct	1501	CACTGTGTCTGGATTGTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAACCTTG	1800
Query	1823	TGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCAGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGCTTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTGCAGTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTGCAGTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCCTTACAACCCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCTCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCTCTCGTGTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722

Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTTGTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCG	3860

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Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTT	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGTCGTCTTGTCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAAGTCCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAAC TTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCCTCCTCTTCAACATATTGGG	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCCTCCTCTTCAACATATTGGG	5757
Query	5780	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCA	6139

Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCAGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTCGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTCGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCTGTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCCTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276

Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCTACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGGGGGGACTCCGACGTTGAGTCCTATTCTTCCATGGGGGGCTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTTACGCACTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTACGCACTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7854
Query	7877	GCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)

Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGCACGTGCGCCCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGCTCGTCGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162

Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141		1200
Query	1223	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGCCAACTGTTACCTTCTC	1282
Sbjct	1201		1260
Query	1283	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1342
Sbjct	1261		1320
Query	1343	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1402
Sbjct	1321		1380
Query	1403	GGGTCATCGCATGGCATGGGATATGATGATGAACCTGGTCCCCTACGGCAGCGTTGGTGGT	1462
Sbjct	1381		1440
Query	1463	GGGTCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCCTACGACGGCGTTGGTAAT	1522
Sbjct	1441		1500
Query	1523	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1582
Sbjct	1501		1480
Query	1603	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1662
Sbjct	1581		1640
Query	1683	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1742
Sbjct	1661		1720
Query	1763	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	1822
Sbjct	1741		1800
Query	1843	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCG	1902
Sbjct	1821		1880
Query	1923	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1982
Sbjct	1901		1880
Query	2003	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACCTGAT	2062
Sbjct	1981		2040
Query	2083	CACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	2142
Sbjct	2061		2120
Query	2163	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	2222
Sbjct	2141		2200
Query	2243	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	2302
Sbjct	2221		2200
Query	2323	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	2382
Sbjct	2301		2360
Query	2403	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	2462
Sbjct	2381		2440
Query	2483	GAGGTTGGCCAGCTGCCGACGCCTTACCATTGTTGCCAGGGCTGGGGTCTTATCAGTTA	2542
Sbjct	2461		2520
Query	2563	GAGGTTAGCCAGCTGCCGACCCCTTACCATTGTTGCCAGGGCTGGGGTCTTATCAGTTA	2622
Sbjct	2541		2600
Query	2643	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	2702
Sbjct	2621		2680
Query	2723	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	2782
Sbjct	2701		2760
Query	2803	TGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	2862
Sbjct	2781		2840
Query	2883	CGGTATTGTGCCCAGAAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	2942
Sbjct	2861		2920
Query	2963	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	3022
Sbjct	2941		3000
Query	3043	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	3102
Sbjct	3021		3080
Query	3123	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAAACATCCGGAAGCCACATA	3182
Sbjct	3101		3160
Query	3203	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	3242
Sbjct	3181		3220
Query	3283	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTGCCTACCCGTATAG	3302
Sbjct	3261		3280
Query	3363	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCCTGGTGCCTACCCGTATAG	3422
Sbjct	3341		3400
Query	3443	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	3502
Sbjct	3421		3480
Query	3523	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	3582
Sbjct	3501		3560
Query	3603	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	3662
Sbjct	3581		3640

Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCACCAGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCCTTCACAACCCTACCAGCCTTGTCACCAGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGCGAGACGCGCGCTGTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTTCTTCTGCTTGCGAGACGCGCGCTGTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCAACGTCCCGCGGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440

Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGTAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGTAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTTCATTCCTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGTAGTGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGC AAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTT TACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGATTGGGCATCAAT	4580

Sbjct	4499	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCCAGACAGTCGATTTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCCGCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGGAAGTCCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719

Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTGGG	5779
Sbjct	5698	TACAGCTGCTGTACACAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTACACCACGGGCCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCAGGACGTAGCCGTGTTGACG	6857

Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG--	6894
Query	6918	GGG--TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCGTGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTGATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7854
Query	7877	GCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCCACTCAGGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAAC	7996

Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACCTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG-cccccccgagg	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	ccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCTGACCCTACAACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	ACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAAC	9053
Query	9076	TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9135

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Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCTTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAAC TGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAAC TGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAC TGAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAAC TGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882

Sbjct	1801	CGGTATTGTGCCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTTTCGTCCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGCTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCCTTCACAACCCTACCAGCCTTGCTCCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAAGTGGGTGCCCAGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCAACGTCCCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAACACTACTCCTGG	3021

Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTC AAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGC GGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGC AAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160

Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACGTGTGTCCTTACCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACGTGTGTCCTTACCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCAGCAGACTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCAGCAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTACCTTTACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
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Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCCCGCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTGCG	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
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Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
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Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
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Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCAACAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
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Sbjct	5758	GGGGTGGGTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
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Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438

Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
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Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACATAGG	6715
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Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6775
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Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
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Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
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Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
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Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
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Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCCTTGGGCGCGGCCGGA	7194
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Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
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Sbjct	7315	GGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
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Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCGTGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCGTGA	7494
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Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
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Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
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Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCAAGCCCGCGTGG	8333
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Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG CAGGGCTCCAGGACTGCA	8513
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Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
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Query	803	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	862
Sbjct	781		840
Query	863	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	922
Sbjct	841		900
Query	923	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	982
Sbjct	901		960
Query	983	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	1042
Sbjct	961		1020
Query	1043	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	1102
Sbjct	1021		1080
Query	1103	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	1162
Sbjct	1081		1140
Query	1163	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	1222
Sbjct	1141		1200
Query	1223	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	1282
Sbjct	1201		1260
Query	1283	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	1342
Sbjct	1261		1320
Query	1343	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCCTTCAGCCTACCAAGT	1402
Sbjct	1321		1380
Query	1403	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCCTTCAGCCTACCAAGT	1462
Sbjct	1381		1440
Query	1463	GCGCAATTCTTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	1522
Sbjct	1441		1500
Query	1523	GCGCAACTCCACGGGGCTTTACCACGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	1582
Sbjct	1501		1560
Query	1583	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCCTCCCTTGCGTTTCGTGAGGGCAA	1642
Sbjct	1561		1620
Query	1643	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCCTCCCTTGCGTTTCGTGAGGGCAA	1702
Sbjct	1621		1680
Query	1703	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1762
Sbjct	1681		1740
Query	1763	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAAACCTCCC	1822
Sbjct	1741		1800
Query	1823	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1882
Sbjct	1801		1860
Query	1883	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1942
Sbjct	1861		1920
Query	1943	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGGTCAACTGTTTACCTTCTC	2002
Sbjct	1921		1980
Query	2003	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGCCAACTGTTACCTTCTC	2062
Sbjct	1981		2040
Query	2063	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	2122
Sbjct	2041		2100
Query	2123	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	2182
Sbjct	2101		2160
Query	2183	GGGTCATCGCATGGCATGGGATATGATGATGAACGGTCCCTACGGCAGCGTTGGTGGT	2242
Sbjct	2161		2220
Query	2243	GGGTCACCGCATGGCATGGGATATGATGATGAACGGTCCCTACGACGGCGTTGGTAAT	2302
Sbjct	2221		2280
Query	2303	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	2362
Sbjct	2281		2340
Query	2363	GGCTCAGCTGCTCCGGATCCCAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	2422
Sbjct	2341		2400
Query	2423	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACCTGGGCGAAGGTCCTGGTAGT	2482
Sbjct	2401		2460

Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAC TGTAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCTTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAACCTTG	1800
Query	1823	TGGCATTGTGCCCAGAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCAGCAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	2002
Sbjct	1921	GGACGCTTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCAGGTGCCTGGTTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCCTTACAACCCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602

Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCAGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCGTCGCGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCAACGTCCCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740

Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAAGCACCAAGGTCCCGGTGCGATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCAGACAGTCGATTTAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTGAC	4880

Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCC GCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCC GCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTT TTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTT TCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATT CGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTT CAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTT CAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGTCGTCTTGTCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAAC TTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTACACAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019

Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCAGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCAGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCAGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTACACCACGGGCCCCTGTACCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCAGGCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCAGGCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156

Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCTGTTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCCTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCGGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCGGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTGATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCATCAACGCAGTGAAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAACTGCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTTACGCGAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7854
Query	7877	GCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295

Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAGTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGC GGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAAGTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGC GGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	ACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCC	8775
Sbjct	8694	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCTGACCCTACAACCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	ACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACC GCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA	9255
Sbjct	9174	CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA	9233
Query	9256	CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGT	9315
Sbjct	9234	CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGGA	9293
Query	9316	TCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT	9375
Sbjct	9294	TCTGGTTTTGCCTACTCCTGCTTGTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT	9353
Query	9376	GAAGGTTGGGGTAAACACTCCGGCCT	9401

Sbjct 9354 GAAGGTTGGGGTAAACACTCCGGCCT 9379

>**gb|AR166930.1|AR166930** Sequence 1 from patent US 6284249
Length=9379

Score = 1.516e+04 bits (8209), Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGCACGTGCGCCCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTGAGCCTATCCCCAAGGCTCGTTCGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTCGCGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCCTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCCTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042

Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCCTTGC GTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAAGTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAAGTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAGTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAGTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAC TGAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCTTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCC GAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCC GCGAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTGCGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTTCGTCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	2002
Sbjct	1921	GGACGCTTCGTCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTGCCTACCCGTATAG	2182

Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161		2220
Query	2243	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2302
Sbjct	2221	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2280
Query	2303		2362
Sbjct	2281	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2340
Query	2363	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2422
Sbjct	2281		2340
Query	2363	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2422
Sbjct	2341	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423		2482
Sbjct	2401	CCTCCCGTGTTCCCTTCACAACCCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2460
Query	2483	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCGGGCCAT	2542
Sbjct	2461		2460
Query	2483	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCGGGCCAT	2542
Sbjct	2461	TAAGTGGGAGTACGTGCTTCTCCTGTTCCCTTGCTTGCGAGACGCGCGCTGTGCTCCTG	2520
Query	2543		2602
Sbjct	2521	TAAGTGGGAGTACGTGCTTCTCCTGTTCCCTTGCTTGCGAGACGCGCGCTGTGCTCCTG	2580
Query	2603	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2662
Sbjct	2581		2640
Query	2603	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2662
Sbjct	2581	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2640
Query	2663		2722
Sbjct	2641	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTT	2700
Query	2723	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCAGGAGCGGTCTACGCCCTCTACGGGATGTG	2782
Sbjct	2701		2760
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2842
Sbjct	2761		2820
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTGCCATA	2902
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTACCATA	2880
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2962
Sbjct	2821		2880
Query	2903	TTACAAGCGCTATATCAGCTGGTGCCTTGTTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGGTTTCAACGTCCCGCGATGCCGTCAT	2940
Query	2963	AGCGCAACTGCACGTGTGGATTCCCCCTCAACGTCCGAGGGGGCGCGACGCCGTCAT	3021
Sbjct	2941		2999
Query	3022	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAATACTCCTGG	3081
Sbjct	2941		2999
Query	3022	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATACCAAATTGCTGCTGG	3081
Sbjct	2941	CCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	CCGTCCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3140
Sbjct	3060		3118
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Sbjct	3060		3118
Query	3141	GCGTTCAAGGCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3200
Sbjct	3119		3178
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201		3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261		3320
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3179		3238

Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460

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Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAAC TTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTCAACGACCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCAACGACCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCACTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATAACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTACACAGG	6737

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Sbjct 8934 ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT 8993
Query 9016 TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC 9075
      |||
Sbjct 8994 TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC 9053
Query 9076 TTGGGGTCCC GCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC 9135
      |||
Sbjct 9054 TTGGGGTACC GCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC 9113
Query 9136 TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9195
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Sbjct 9114 TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9173
Query 9196 CAAAGCTCAAAC TCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA 9255
      |||
Sbjct 9174 CAAAGCTCAAAC TCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA 9233
Query 9256 CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGT 9315
      |||
Sbjct 9234 CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGGA 9293
Query 9316 TCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT 9375
      |||
Sbjct 9294 TCTGGTTTTGCCTACTCCTGCTTGTGTCAGGGGTAGGCATCTACCTCCTCCCAACCGAT 9353
Query 9376 GAAGGTTGGGGTAAACACTCCG GCCT 9401
      |||
Sbjct 9354 GAAGGTTGGGGTAAACACTCCG GCCT 9379
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>**dbj|DI039725.1|** COMBINATIONS OF HEPATITIS C VIRUS (HCV) ANTIGENS FOR USE IN IMMUNOASSAYS
FOR ANTI-HCV ANTIBODIES
Length=9401

Score = 1.514e+04 bits (8199), Expect = 0.0
Identities = 9000/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
      |||
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
      |||
Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
      |||
Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query 181 GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
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Sbjct 181 GACGACCGGGTCCTTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Query 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Query 301 GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
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Sbjct 301 GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Query 361 CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
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Sbjct 361 CTCAAARAAAAAMCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
Query 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC 480
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Sbjct 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Query 481 GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
      |||
Sbjct 481 GCGCGACGAGAAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Query 541 AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600
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Sbjct	541	CTCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCCTTA	720
Query	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTTCGGCGCCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841	GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCTGGTTGCTCTTTCTCTAYCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCCGCTTCGGCCTACCAAGTGC GCAACTCCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGC GTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGC GTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCTG	1140
Sbjct	1081	CCACCAGGGATGGCAAAC TCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCTG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG	1200
Sbjct	1141	GGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAAC TGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTARTGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGTCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAAGTGCCGGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAAC TGAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCTTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740

Sbjct	1681	TCAACTCTTCAGGCTGTCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCCTACTGCT	1800
Query	1801	GGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCCAAAACCTTGCGGTATTGTGCCCCGGAAGAGTGTGTGTGGTCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCCCACCT	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCAATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCAATCGGAGGGGTGGGCAACAACACCTTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGMTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTGGAACACAGGCTGGAAGCTGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCCTGTTTCTTACCAACCCTACCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTTCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTTCTTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGG	2700
Sbjct	2641	CCTTCCTCGTGTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCCGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTGA	2820
Query	2821	TGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880

Sbjct	2821		TGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881		AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCC	2940
Sbjct	2881		AGWATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCC	2940
Query	2941		CGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941		GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000		GACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000		GACATCACCAAATTGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060		CTTAAAGTCCCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060		CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCGTGCGCGTTAGCGCGG	3119
Query	3120		AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120		AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179		CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179		CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCAGAGA	3238
Query	3239		TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299		GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCGTAG	3358
Sbjct	3299		GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGCAG	3358
Query	3359		GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419		GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419		GGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479		CCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		CCTAACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539		CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599		AACGAGGACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599		AACGAGGACCATCGCGTCACCCAAGGGTCTGTATCCAGATGTATACCAATGTAGACCA	3658
Query	3659		AGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659		AGACCTTGTTGGGCTGGCCCGCTYCGCAAGGTASCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719		CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719		CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779		TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		TGATAGCAGGGGCAGCCTGCTGTGCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGG	3838
Query	3839		GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839		GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899		CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899		CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959		ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018


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Sbjct 3959 GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC 4018
Query 4019 CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC 4078
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Sbjct 4019 TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC 4078
Query 4079 CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG 4138
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Sbjct 4079 TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTG 4138
Query 4139 TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTAC 4198
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Sbjct 4139 TTACATGTCCAAGGCTCATGGGATCGATCYTAACATCAGGACCGGGGTGAGAACAAATTAC 4198
Query 4199 CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC 4258
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Sbjct 4199 CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC 4258
Query 4259 AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
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Sbjct 4259 GGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT 4318
Query 4319 CTTGGGCATCGGCACGTGCTCTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT 4378
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Sbjct 4319 CTTGGKCATCGGCACGTGCTCTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT 4378
Query 4379 CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC 4438
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Sbjct 4379 CGCCACCGCCACCCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC 4438
Query 4439 TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA 4498
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Sbjct 4439 TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA 4498
Query 4499 GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA 4558
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Sbjct 4499 GGGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACTCGCCGCAAA 4558
Query 4559 GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT 4618
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Sbjct 4559 GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCA 4618
Query 4619 CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG 4678
|||||
Sbjct 4619 CCCGACCAGCGGCGATGTTGTCGTCGTGCGCAACCGATGCCCTCATGACCGGCTATACCGG 4678
Query 4679 CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACGCCT 4738
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Sbjct 4679 CGACTTCGACTCGGTGATAGACTRCAATACGTGTGTCAACCCAGACAGTCGATTTACGCCT 4738
Query 4739 TGACCCTACCTTTACCATTTAGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA 4798
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Sbjct 4739 TGACCCTACCTTCASCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA 4798
Query 4799 ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA 4858
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Sbjct 4799 ACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA 4858
Query 4859 GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC 4918
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Sbjct 4859 GCGCCCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC 4918
Query 4919 TTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC 4978
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Sbjct 4919 TTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC 4978
Query 4979 GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC 5038
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Sbjct 4979 GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC 5038
Query 5039 TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT 5098
|||||
Sbjct 5039 TCATATAGATGCCCACTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT 5098
Query 5099 GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCA 5158
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Sbjct	5099		GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Query	5159		GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159		GATGTGGAAGTGTGTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219		CAGACTGGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219		CAGACTGGGCGCTGTTTCAGAATGAAATCACCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279		GACATGCATGTTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279		GACATGCATGTTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339		CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339		CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399		CGTCTTGTCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399		CGTCTTGTCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCG	5457
Query	5458		ATGAGATGGAAGAGTGTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458		ATGAGATGGAAGAGTGTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578		TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578		TCGCCCTGCTGTCCAGACCAACTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638		GGAATTTTCATCAGTGGGATACAATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAA	5757
Sbjct	5698		CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAA	5757
Query	5758		CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758		CCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818		CTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818		CTACTGCCCTTTGTGGGCGCTGGCCTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGA	5877
Query	5878		AGGTCCTCGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878		AGGTCCTCATAGACATCCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCCCA	5997
Sbjct	5938		TCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGRGGACCTGGTCAATCTACTGCCCCCCA	5997
Query	5998		TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998		TCCTCTCGCCCCGAGCCCTCGTAGTCGGCGTGGTCTGTGCAAGCAATACTGCGCCGGCACG	6057
Query	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058		TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118		GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTG	6177
Sbjct	6118		GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTG	6177
Query	6178		CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178		CCATAWCWGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297

Sbjct	6238		CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298		AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGA	6357
Sbjct	6298		AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358		TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358		TCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGKG-GACGGCATCATG	6416
Query	6417		CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417		CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477		ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477		ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537		ACCACGGGCCCCGTGTAACCTTCCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537		ACCACGGGCCCCGTGTACCCCCCTTCCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTG	6596
Query	6597		TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597		TCTGCAGAGGAATATGTGGAGATAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656		GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATT	6715
Sbjct	6656		GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTTACAGAATT	6715
Query	6716		GGACGGGGTGC GCCTACACAGGTTTGC GCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716		GGACGGGGTGC GCCTACATAGTTTGC GCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776		ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6776		ATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Query	6836		ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6836		ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Query	6896		GGCCGGGAGAAAGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896		GGCCGGGCGAAGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955		AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955		AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015		AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015		AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075		AGTCAGAGAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075		AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135		AGCGGGAGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCGGGCC	7194
Sbjct	7135		AGCGGGAGATCTCCGTACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCAGGCC	7194
Query	7195		TGCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195		TGCCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCCG	7254
Query	7255		ACTACGAACCACCTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGC	7314
Sbjct	7255		ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCCTCCTGTGC	7314
Query	7315		CTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315		CTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375		CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434

Sbjct	7375	 CCGAGCTCGCCASCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG*****GACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATG*****TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	WTKCCTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCCTGCGCGGAAGAACAGAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAACTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTCACCACAATTTGGTGTATTCCACCACCTCACGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTBCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACC	8094
Sbjct	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCARGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573

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Sbjct	121		GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGGA	180
Query	203		TAAACCCGCTCAATGCCTGGAGATTGGGGCTGCCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181		TCAACCCGCTCAATGCCTGGAGATTGGGGCTGCCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263		GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241		GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323		GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301		GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAARAAAAAMCAAACGTAA	360
Query	383		CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361		CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	420
Query	443		TTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421		TTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503		GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCCGAGGGCAG	562
Sbjct	481		GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCCGAGGGCAG	540
Query	563		GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541		GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623		GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601		GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683		TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661		TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743		GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721		GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGGAAGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803		CGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781		CGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863		CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCCGCTTCAGCCTACCAAGT	922
Sbjct	841		CTCTAYCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCCGCTTCGGCCTACCAAGT	900
Query	923		GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901		GCGCAACTCCACGGGGCTTTACCACTGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983		CGAGGCGGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961		CGAGGCGGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGCAA	1020
Query	1043		CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021		CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103		CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTGCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081		CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTGCGGGAGCGCCACCCTCTGTTCCGGC	1140
Query	1163		CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141		CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGGCAACTGTTTACCTTCTC	1200
Query	1223		TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201		TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283		GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342

Sbjct	1261	CACC G C A T G G C A T G G G A T A T G A T G A A C T G G T C C C C T A C G A C G G C G T T G G T A T	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAGTAT	1582
Sbjct	1501	CACTGTGCTCTGGATTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAACCTTG	1800
Query	1823	TGGCATTGTGCCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCCGCAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGCTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGAAGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGMTACACACCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCGTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCGTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTTACGACCCTGCCAGCCTTGCTCCACCGGCCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCCTGTTCTTTCACAACCCTACCAGCCTTGCTCCACCGGCCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTTGGGCCAT	2482

Sbjct	2401		GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCTGGGCCAT	2460
Query	2483		TAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCTTGCAGACGCGCGCTCTGCTCCTG	2542
Sbjct	2461		TAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTCTGCTTGCAGACGCGCGCTCTGCTCCTG	2520
Query	2543		CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521		CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603		CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCCTCTGCTT	2662
Sbjct	2581		TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCCTCTGCTT	2640
Query	2663		TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641		TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723		GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701		GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783		GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761		GGCCGCGTCGTGTGGCGGCGTTGTTCTGTCGCGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843		TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821		TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGA	2880
Query	2903		AGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCgggggggCGCGATGCCGTCAT	2962
Sbjct	2881		AGCGCAACTGCACGTGTGGATTCCCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963		CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACACTCTCCTGG	3021
Sbjct	2941		CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022		CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000		CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082		GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060		GCGTCCAAGGCCTTCTCCGGTCTGCGCGCTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141		GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119		GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201		ACCCCTCTTCGAGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179		ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261		GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATAACGCCGCGTGC	3320
Sbjct	3239		GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATAACGCCGCGTGC	3298
Query	3321		GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299		GGTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381		CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359		CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441		CAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419		CAGCAGACAAGGGGCCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501		CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479		CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561		ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620

Sbjct	3539		ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621		AAGGGTCCGTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599		AAGGGTCCGTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681		CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659		YCGCAAGGTASCCGCTCATTGACACCCTGCACTTGC GGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741		ACGAGGCACGCCGATGTCATTCCCGTGC GCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719		ACGAGGCACGCCGATGTCATTCCCGTGC GCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801		TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779		TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861		GGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839		GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921		GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899		GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981		TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959		TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041		AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019		AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101		CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079		CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161		GTTGATCCTAATATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139		ATCGATCYTAACATCAGGACCGGGGTGAGAACAAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221		TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199		TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281		ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259		ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341		GACCAAGCAGAGACTGCGGGGGCGAGACTG GTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319		GACCAAGCAGAGACTGCGGGGGCGAGACTG GTTGTGCTCGCCACC GCCACCCCTCCGGGC	4378
Query	4401		TCCGTCAC TG TG TCCCATCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379		TCCGTCAC TG TG TCCCATCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461		CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439		CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521		TGCCACTCAAAGAAGAAGTGC GACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499		TGTCATTCAAAGAAGAAGTGC GACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581		GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT CATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559		GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGT CATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641		GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619		GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701		TGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCCTACCTTTACCATTGAG	4760

Sbjct	4679	TRCAATACGTGTGTACCCAGACAGTCGATTTACAGCCTTGACCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCAACAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCCGCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGCTATGACGCAAGGCTGTGCTTGGTATGAGCTCACGCCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5218
Query	5241	GAAGTACCCCTGACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCTGCTTGTCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACCTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACCTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACACAGCCCACTAACCCTAGGCCAAACCCCTCCTCTTCAACATATTGGG	5779
Sbjct	5698	TACAGCTGCTGTACACAGCCCACTAACCCTAGGCCAAACCCCTCCTCTTCAACATATTGGG	5757
Query	5780	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCGCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCGCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGACATTCTTGC	5899

Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCGCCACGGAGGACCTGGTCAATCTGCTGCCCCGCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCGCCACGGAGGACCTGGTCAATCTACTGCCCCGCATCCTCTCGCCCCGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGTCAGCAATACTGCGCCGGCACGTTGGCCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6237
Query	6260	CGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAAGTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGTGCCTGGGATCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCCC	6536
Query	6559	TTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCTGCGCCGAACATACAGTTCGCGCTATGGAGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTTCACAGAATTGGACGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGTCCCATCGCCCGAATTTTTTCACAGAATTGGACGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCGTACGCCGAGCTCATAGAGGCTAACCTCCT	7036

Sbjct	6955		GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037		GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015		ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097		TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075		TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157		AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135		AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCCGTTTGGGCGCGGCCGGA	7194
Query	7217		CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195		CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277		TGGCTGCCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255		TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337		GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315		GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397		TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375		TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457		CCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCTGGA	7516
Sbjct	7435		CCCTTCTGGCTGCCCCCCCCGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCCCCTGGA	7494
Query	7517		GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495		GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577		CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555		CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637		CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615		CCCGTGCGCCGCGGAAGAACAGAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697		CCATCACAATCTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675		TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757		CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735		CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817		AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCTGAC	7876
Sbjct	7795		AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCTGAC	7854
Query	7877		GCCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855		GCCCCCACACTGAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	7914
Query	7937		CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915		CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997		ACCAATAGACACTACCATCATGGCCAAGAACGAGTTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975		ACCAATAGACACTACCATCATGGCTAAGAACGAGTTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057		GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035		GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117		GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175

Sbjct	8095	 GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	 GATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	 GATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	 AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	 AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	 ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	 ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	 CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	 CCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	 AAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	 AGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	 CCCTCACTTGCTACATCAAGGCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	 CCCTCACTTGCTACATCAAGGCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	 CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCAGGGGTCCAGGAGG	8595
Sbjct	8514	 CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	8573
Query	8596	 ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	 ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	 ACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	 ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	 TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCC	8775
Sbjct	8694	 TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCTGACCCTACAACCCCC	8753
Query	8776	 TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8835
Sbjct	8754	 TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACA	8813
Query	8836	 TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	 TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	 TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	 TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	 ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	 ACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	 TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	 TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
Query	9076	 TTGGGGTCCC GCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	 TTGGGGTACC GCCCTTGCGAGCTTGGRGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	 TGTCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	 TGGCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	 CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCA	9255
Sbjct	9174	 CAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA	9233
Query	9256	 CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGGCCCCGCTGGT	9315

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Sbjct  9234  |||||CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGA 9293
Query  9316  TCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGAT 9375
Sbjct  9294  TCTGGTTTTGCCTACTCCTGCTTGTCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGAT 9353
Query  9376  GAAGGTTGGGGTAAACACTCCGGCCT 9401
Sbjct  9354  GAAGGTTGGGGTAAACACTCCGGCCT 9379
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>dbj|E08264.1| cDNA of Hepatitis C virus,HC-J1
Length=9502

Score = 1.487e+04 bits (8052), Expect = 0.0
Identities = 9024/9503 (94%), Gaps = 27/9503 (0%)
Strand=Plus/Plus

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Query  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Sbjct  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query  61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
Sbjct  61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query  121     cccccctccccgggagagccatagtggtctgcggaaccggtgagtacaccggaattgccag 180
Sbjct  121     CCCCCCTCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query  181     GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCCC 240
Sbjct  181     GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCCC 240
Query  241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct  241     GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Query  301     GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Sbjct  301     GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGATTCCCAAAC 360
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Sbjct  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420
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Sbjct  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Query  481     GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Sbjct  481     GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Query  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600
Sbjct  541     AGGTGCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG 600
Query  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Sbjct  601     GCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGTT 660
Query  661     GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA 720
Sbjct  661     GGGGCCCCACGAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTCA 720
Query  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
Sbjct  721     CGTGCGGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG 780
Query  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Sbjct  781     CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG 840
Query  841     GGAACCTTCTTGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG 900
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Sbjct	841		GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAACTCCACAGGGCTTTATCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGC-CGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCG-CACGATGCCATCCTGCATACTCCGGGGTGT	1019
Query	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		GTCCCTTGCGTTTCGCGAGGGCAACGTCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTA	1079
Query	1080		GCCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080		GCCACCAGGGACGGCAAAC TCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTC	1139
Query	1140		GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140		GGGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGATCTGTGCGGGTCCGTCTTCCTT	1199
Query	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGT	1259
Sbjct	1200		ATTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACAACGCAAGGCTGCAATTGT	1259
Query	1260		TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGG	1319
Sbjct	1260		TCTATCTACCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAAGTGG	1319
Query	1320		TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Sbjct	1320		TCCCCTACGGCGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGAT	1379
Query	1380		ATGATCGCTGGTGCTCACTGGGGAGTCC TGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Sbjct	1380		ATGATCGCTGGTGCTCACTGGGGAGTCC TGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Query	1440		AACTGGGCGAAGGTCTTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA-	1498
Sbjct	1440		AACTGGGCGAAGGTCTTGGTAGTGCTGTTGCTGTTTGCCGGCGTCGACGCGGAAACC-AT	1498
Query	1499		CGTCACCGGGGGA-AATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTT-ACACCA	1556
Sbjct	1499		CGTCTCCGGGGGACAA-GCCGCCCGCGCCATGTCTGGACTTGTTAGTCTC-TTCACACCA	1556
Query	1557		GGCGCCAAGCAGAACATCCAAC TGAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Sbjct	1557		GGCGCTAAGCAGAACATCCAGCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Query	1617		GCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCT-TCTATCAACA	1675
Sbjct	1617		GCCTTGAAC TGAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCT-TATCTATCAACA	1675
Query	1676		CAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Sbjct	1676		CAAATTCAACTCTTCGGGCTGTCCCGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Query	1736		TGCCCAGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTTA	1795
Sbjct	1736		TGACCAGGGCTGGGGCCCTATCAGTCATGCCAACGGAAGCGGCCCGACCAACGCCCTTA	1795
Query	1796		CTGCTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCC GCAAAGAGCGTGTGTGGCCC	1855
Sbjct	1796		TTGTTGGCACTACCCCCCAAACCTTGC GGATCGTGCCC GCAAAGAGCGTATGTGGCCC	1855
Query	1856		GGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCC	1915
Sbjct	1856		GGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCC	1915
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Sbjct	1916		TACCTACAAC TGGGGTGCAAATGACACGGACGTCTTCGTCCTTAACAACACCAGGCCACC	1975
Query	1976		GCTGGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGG	2035

Sbjct	1976	GCTGGGGCAATTGGTTTCGGTTGCACCTGGATGAACTCAACTGGATTACCAAGGTATGCGG	2035
Query	2036	AGCGCCCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTG	2095
Sbjct	2036	AGCGCCTCCTTGTGTGATTGGAGGGGGGGGCAACAACACCCTGCACTGCCCCACTGATTG	2095
Query	2096	CTTCCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACC	2155
Sbjct	2096	TTTCCGCAAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCTGGTCCCTGGATCACACC	2155
Query	2156	CAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACAC	2215
Sbjct	2156	CAGATGCCGTGGTCGACTATCCATATAGGCTTTGGCATTACCCTTGTACCATCAACTATAC	2215
Query	2216	CATATTCAAAGTCAGGATGTACGTGGGAGGGGTTCGAGCACAGGCTGGAAGCGGCCTGCAA	2275
Sbjct	2216	CATTTTAAAGTTAGGATGTACGTGGGAGGGGTTCGAGCACAGGCTGGATGTGCCTGCAA	2275
Query	2276	CTGGACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTT	2335
Sbjct	2276	CTGGACGCGGGGCGAACGTTGCGATCTGGAAGATAGGGACAGGTCCGAGCTCAGCCCGTT	2335
Query	2336	GCTGCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTT	2395
Sbjct	2336	GCTGCTGTCCACCACGCAGTGGCAGGTCCTTCCGTGTTTCATTACGACCCTGCCAGCCTT	2395
Query	2396	GTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGT	2455
Sbjct	2396	GTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACCTGTACGGGGT	2455
Query	2456	AGGGTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCT	2515
Sbjct	2456	GGGGTCAAGCATCGCGTCCTGGGCCATCAAGTGGGAGTACGTCGTTCTCCTGTTCTTCT	2515
Query	2516	GCTTGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGA	2575
Sbjct	2516	GCTTGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGA	2575
Query	2576	GGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGC-ACGGTC	2634
Sbjct	2576	GGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCGA-GGTC	2634
Query	2635	TTGTGTCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCG	2694
Sbjct	2635	TTGTATCCTTCTCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCG	2694
Query	2695	GAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTC	2754
Sbjct	2695	GAGCGGCTTACGCCCTCTACGGGATGTGGCCCTGCTCCTGCTCCTGTTAGCGTTGCCCC	2754
Query	2755	AGCGGGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCTG	2814
Sbjct	2755	AGCGGGCATAACGCGTTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCTG	2814
Query	2815	GGTTAATGGCGCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGT	2874
Sbjct	2815	GGTTAATGGCGCTGACCCTGTACCCATATTACAAGCGCTGTATCAGCTGGTGCCTTATGGT	2874
Query	2875	GGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCTCTCTCA	2934
Sbjct	2875	GGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAATTGCACGTGTGGGTTCCTCTCTCA	2934
Query	2935	ACGTCCGCGGCGCGATGCCGTATCTTACTCATGTGTGTAGTACACCCGACCCTGG	2994
Sbjct	2935	ACGTTTCGAGGAGGGCGCGACGCCGTATCTTACTCATGTGTGTGTACACCCGACTCTGG	2994
Query	2995	TATTTGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCA	3054
Sbjct	2995	TATTTGACATCACCAAATACTGCTGGCCGTCTTGGACCCCTTTGGATTCTTCAAGCCA	3054
Query	3055	GTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCGAAGGCCTTCTCCGGATCTGCGCGCTAG	3114
Sbjct	3055	GTTTGCTTAAAGTACCCTACTTCGTGCGCGTTCGAAGGCCTTCTCCGGATCTGCGCGCTGG	3114
Query	3115	CGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTA	3174

Sbjct	3115		CGCGGAAGATGGTCGGAGGCCATTACGTGCAAATGGCTATCATCAAGTTAGGGGCGCTTA	3174
Query	3175		CTGGCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGC	3234
Sbjct	3175		CTGGCACCTATGTTTATAATCACCTGACTCCTCTTCGGGACTGGGCGCACAAACGGCCTGC	3234
Query	3235		GAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCA	3294
Sbjct	3235		GAGACCTGGCCGTGGCCGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCA	3294
Query	3295		CGTGGGGGGCAGATAACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCC	3354
Sbjct	3295		CGTGGGGGGCGGACACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCCGCCC	3354
Query	3355		GTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGT	3414
Sbjct	3355		GTAAGGGCCGGGAGATACTGCTCGGACCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGT	3414
Query	3415		TGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCA	3474
Sbjct	3415		TGCTGGCGCCCATTACGGCGTACGCCAGCAGACAAGGGGCCCTCCTAGGGTGTATAATCA	3474
Query	3475		CCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTG	3534
Sbjct	3475		CCAGCCTAACTGGCCGGGATAAAAAACCAAGTGGAGGGCGAGGTCCAGATTGTGTCAACTG	3534
Query	3535		CTACCCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGG	3594
Sbjct	3535		CTGCCCAAACCTTTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGG	3594
Query	3595		CCGGAACGAGGACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGG	3654
Sbjct	3595		CCGGAACGAGGACCATCGCATCACCCAAGGGTCTGTTATCCAGATGTATACCAACGTAG	3654
Query	3655		ACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCT	3714
Sbjct	3655		ACCAAGACCTCGTTGGCTGGCCCGCTCCTCAAGGTGCCCGCTCATTGACACCCTGCACCT	3714
Query	3715		GCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGC	3774
Sbjct	3715		GCGGCTCCTCGGACCTTTACTTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGC	3774
Query	3775		GAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCCATTTCTACTTGAAAGGCTCCT	3834
Sbjct	3775		GGGGTGATAGCAGGGGCAGCCTGCTGTACCCCCGGCCCCATTTCTACTTGAAAGGCTCCT	3834
Query	3835		CGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGT	3894
Sbjct	3835		CGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGTCGTAGGCATATTTCAGGGCCGCGGTGT	3894
Query	3895		GCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCA	3954
Sbjct	3895		GCACCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAGCCTAGAGACAACCA	3954
Query	3955		TGAGATCCCCGGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGG	4014
Sbjct	3955		TGAGGTCCCCGGTGTTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGG	4014
Query	4015		TGGCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGACCAAGTCCCGGCTGCGTACG	4074
Sbjct	4015		TGGCCACCTGCATGCTCCCACGGGCAGCGGCAAGAGACCAAGTCCCGGCTGCGATATG	4074
Query	4075		CAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTG	4134
Sbjct	4075		CAGCTCAGGGCTATAAGGTGCTAGTGCTCAACCCCTCTGTTGCCGCAACACTGGGCTTTG	4134
Query	4135		GTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAA	4194
Sbjct	4135		GTGCTTACATGTCCAAGGCCACGGGATTGATCCTAATATCAGGACCGGGGTGAGAACAA	4194
Query	4195		TTACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGT	4254
Sbjct	4195		TTACCACTGGCAGCCCCATCACGTACTCTACCTACGGCAAGTTCCTTGCTGATGGCGGGT	4254
Query	4255		GCTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACAT	4314

Sbjct	4255	CGGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACAT	4314
Query	4315	CCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTG	4374
Sbjct	4315	CCGTCTTGGGCATCGGTACCGTCCCTTGACCAGGCAGAGACCGCGGGGGCGAGACTGGTTG	4374
Query	4375	TGCTCGCCACTGCTACCCCTCCGGGCTCCG-TCACTGTGTCCCAT-CCTAACATCGAGGA	4432
Sbjct	4375	TGCTCGCCACCGCCACCCCTCCGGGCTC-GATCACCGTGCCCCATGCC-AACATCGAGGA	4432
Query	4433	GGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGT	4492
Sbjct	4433	GGTCGCTCTGTCCACCACCGGAGAGATCCCATTTTTACGGCAAGGCCATCCCCCTCGAAGC	4492
Query	4493	GATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGC	4552
Sbjct	4493	AATCAAGGGGGGGAGACATCTCATTTTCTGCCACTCAAAAAAAAAAGTGTGACGAGCTCGC	4552
Query	4553	CGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTC	4612
Sbjct	4553	CGCGAAGCTGGTCGCATTGGGCGTCAATGCTGTGGCCTACTACCGCGGTCTTGACGTGTC	4612
Query	4613	TGTCATCCCGACCGAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTT	4672
Sbjct	4613	TGTCATCCCGACCGAGCGGCGATGTTGTTGTCTGTCGGAACCTGATGCTCTCATGACTGGCTA	4672
Query	4673	TACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTT	4732
Sbjct	4673	TACCGGCGACTTCGACTCGGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTT	4732
Query	4733	CAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAG	4792
Sbjct	4733	CAGCCTTGACCCTACCTTCACCATTGAGACAACCACGCTTCCCCAGGATGCTGTCTCCCG	4792
Query	4793	GACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4852
Sbjct	4793	CACTCAGCGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACC	4852
Query	4853	GGGGGAGCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGG	4912
Sbjct	4853	GGGGGAGCGTCTTCCGGCATGTTTCGACTCGTCCATCTCTGTGAGTGCTATGACACGGG	4912
Query	4913	CTGTGCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAA	4972
Sbjct	4913	CTGTGCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTGCGAGCGTACATGAA	4972
Query	4973	CACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGG	5032
Sbjct	4973	CACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGG	5032
Query	5033	CCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCC	5092
Sbjct	5033	CCTCACCACATATAGATGCCCACTTCCTATCCCAGACAAAGCAGGGTGGGGAGAACTTTCC	5092
Query	5093	TTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTG	5152
Sbjct	5093	TTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTG	5152
Query	5153	GGACCAGATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCT	5212
Sbjct	5153	GGACCAGATGTGGAAGTGTGTTGATCCGCCTCAAACCCACCCTCCATGGGCCAACACCTCT	5212
Query	5213	GCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATA	5272
Sbjct	5213	GCTATACAGACTGGGCGCTGTCCAGGGTGAAGTCACCCTGACGCACCCAGTCACCAAATA	5272
Query	5273	CATCATGACATGCATGTTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGG	5332
Sbjct	5273	CATCATGACATGCATGTTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGG	5332
Query	5333	CGGCGTCTTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGG	5392
Sbjct	5333	CGGCGTCTTGGCTGCTCTGGCCGCGTATTGCCTGTTCGACAGGCTGCGTGGTCATAGTGGG	5392
Query	5393	CAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGA	5452

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Sbjct 5393 CAGGATTGTCTTGTCCGGGAGGCCGGCAATCATACCAGACAGGGAAGTTCTCTACCGGGA 5452
Query 5453 GTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCT 5512
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Sbjct 5453 GTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTATATCGAACAAGGGATGATGCT 5512
Query 5513 CGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGA 5572
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Sbjct 5513 CGCCGAGCAGTTCAAGCAGAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCAGGCAGA 5572
Query 5573 GGTATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCA 5632
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Sbjct 5573 GGTATCGCCCCCTACTGTCCAAACCAACTGGCAAAACTCGAGGCCTTCTGGGCGAAGCA 5632
Query 5633 CATGTGGAATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAA 5692
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Sbjct 5633 TATGTGGAATTTTCATCAGTGGGATAACAATATTTGGCGGGCCTGTCAACGTTGCCTGGCAA 5692
Query 5693 CCCC GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCTAACCCTAG 5752
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Sbjct 5693 CCCC GCCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCTAACCCTAG 5752
Query 5753 CCAAACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGG 5812
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Sbjct 5753 CCAAACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCTCAGCTCGCCGCCCCCGG 5812
Query 5813 TGCCGCTACTGCCTTTGTGGG-TGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGAC 5871
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Sbjct 5813 TGCCGCCACCGCCTTTGTGGGCTCC-GGCTTGGCTGGCGCCGCCGCTCGGCAGTGTGGAC 5871
Query 5872 TGGGGAAGGTCTCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTG 5931
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Sbjct 5872 TGGGGAGGGTCTCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGGGCTCTTG 5931
Query 5932 TAGCATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGC 5991
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Sbjct 5932 TAGCATTAAAATCATGAGCGGTGAGCTCCCTCCACAGAGGACCTGGTCAATCTACTGC 5991
Query 5992 CCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCC 6051
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Sbjct 5992 CCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGTGCGGCAATACTGCGCC 6051
Query 6052 GGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCT 6111
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Sbjct 6052 GGCACGTCGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCT 6111
Query 6112 CCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCG 6171
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Sbjct 6112 CCCGAGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCGCG 6171
Query 6172 TCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGA 6231
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Sbjct 6172 TCACTGCCATACTCAGCAGCCTCACTGTGACCCAGCTCCTGAGGCGACTACACCAGTGGC 6231
Query 6232 TAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGA 6291
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Sbjct 6232 TAAGCTCGGAGAGCACTACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGA 6291
Query 6292 TATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAATGC 6351
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Sbjct 6292 TATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTAAAAACCAAGCTCATGCCACATCTGC 6351
Query 6352 CTGGGATTCCCTTTGTGTCTTGCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCA 6411
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Sbjct 6352 CTGGGATTCCCTTTGTGTCTTGCAGCACGGGTATAAGGGGGTCTGGCGGGGGGACGGCA 6411
Query 6412 TTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGA 6471
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Sbjct 6412 TTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGAACGA 6471
Query 6472 TGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACG 6531
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Sbjct 6472 TGAGGATCGTCGGTCTTAAGACCTGTAGGAACATGTGGAGTGGGACCTTCCCCATTAACG 6531
Query 6532 CCTACACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGA 6591
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Sbjct	6532		CCTACACCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACCTACACGTTTCGCGCTATGGA	6591
Query	6592		GGGTGCTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCG	6650
Sbjct	6592		GGGTGCTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTGA-CA	6650
Query	6651		GGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACA	6710
Sbjct	6651		GGCATGACTACTGATAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCCGAATTTTTCACA	6710
Query	6711		GAATTGGACGGGGTGCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAG	6770
Sbjct	6711		GAATTGGACGGGGTGCGCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAG	6770
Query	6771		GAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAG	6830
Sbjct	6771		GAGGTATCATTAGGGTAGGACTCCACGATTACCCGGTGGGGTCGCAATTACCTTGCGAG	6830
Query	6831		CCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCA	6890
Sbjct	6831		CCCGAACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCA	6890
Query	6891		GAGGCGGCCGGGAGAAAGTTGGCGAGAGGG-TCACCCCTTCT-ATGGCCAGCTCCTCGG	6948
Sbjct	6891		GCGGCGGCCGGGAGAAAGTTGGCGAG-GGGATCACCCCTTCTGA-GGCCAGCTCCTCGG	6948
Query	6949		CTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCCTG	7008
Sbjct	6949		CTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCATCAACCATGACTCCCCTG	7008
Query	7009		ACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCA	7068
Sbjct	7009		ACGCCGAGCTCATAGAAGCTAACCTCCTATGGAGGCAAGAGATGGGCGGCAACATCACCA	7068
Query	7069		GGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGG	7128
Sbjct	7069		GGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGG	7128
Query	7129		AGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCC	7188
Sbjct	7129		AGGACGAGCGGGAGATCTCCGTGCCCGCAGAAATCCTGCGGAAGTCTCGGAGATTGCCCC	7188
Query	7189		GGGCCCTGCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCT-AGTAGAGACGTGGAAA	7247
Sbjct	7189		AGGCCCTGCGCTATTTGGGCGCGGCCGGACTATAACCCCCCGCTGA-TAGAGACGTGGAAA	7247
Query	7248		AAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCCT	7307
Sbjct	7248		AAGCCTAACTATGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCACAGTCCCCCT	7307
Query	7308		CCTGTGCCCTCCGCTCGGAAAAAGCGTACGGTGGTTCCTACCGAATCAACCCTATCTACT	7367
Sbjct	7308		CCTGTGCCCTCCGCTCGGAAAAAGCGGACGGTGGTTCCTACCGAATCGACCCTATCCACT	7367
Query	7368		GCCTTGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGC	7427
Sbjct	7368		GCCTTGCCGAGCTTGCCGCTAAAAGTTTTGGCAGTTTCCTCAACTTCCGGCATTACGGGC	7427
Query	7428		GACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTT	7487
Sbjct	7428		GACAATACGACAACGTCTCTGAGCCCGCCCCCTTCTGGCTGTTCCCCAGACTCCGACGCT	7487
Query	7488		GAGTCCATATTCTTCCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGAC	7547
Sbjct	7488		GAGTCCATATTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGAC	7547
Query	7548		GGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATG	7607
Sbjct	7548		GGGTCATGGTCGACGGTCAGTAGTGGGCCGCGACGGAAGACGTTGTGTGCTGCTCAATG	7607
Query	7608		TCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCC	7667
Sbjct	7608		TCTTATACTTGGACAGGCGCACTTATCACCCCGTGCCTGCGGAAGAACAACAACTGCCC	7667
Query	7668		ATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCA	7727

Sbjct	7668		ATTAACGCACTGAGCAACTCGTTGCTACGTACCACAACCTGGTGTACTCCACCACCTCA	7727
Query	7728		CGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGC	7787
Sbjct	7728		CGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGC	7787
Query	7788		CATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTG	7847
Sbjct	7788		CACTACCAGGACGTGCTCAAGGAGGTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTG	7847
Query	7848		CTATCCGTAGAGGAAGCTTGCGAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGC	7907
Sbjct	7848		CTATCCGTAGAGGAAGCTTGCGAGCCTGACGCCCCCGCACTCAGCCAAATCCAAGTTTGGC	7907
Query	7908		TATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTG	7967
Sbjct	7908		TATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGTG	7967
Query	7968		TGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAC	8027
Sbjct	7968		TGGAAAGACCTTCTGGAAGACAGTGTAACACCAATACAAACTACCATCATGGCTAAGAAC	8027
Query	8028		GAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTT	8087
Sbjct	8028		GAGGTTTTTTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTT	8087
Query	8088		CCCGACCTGGGCGTGC GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTC	8147
Sbjct	8088		CCCGATCTGGGTGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTC	8147
Query	8148		CCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAA	8207
Sbjct	8148		CCCCCGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAG	8207
Query	8208		TTCTCGTGC AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATAACCCGC	8267
Sbjct	8208		TTCTCGTGC AAGCGTGGAAGTCCAAGAGGACCCCAATGGGGTTCTCGTATGATAACCCGC	8267
Query	8268		TGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGT	8327
Sbjct	8268		TGCTTTGACTCCACAGTCACTGAGAGCGATATCCGTACGGAGGAGGCAATCTACCAATGT	8327
Query	8328		TGTGACCTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTT	8387
Sbjct	8328		TGTGACCTGGACCCCCAAGCCCGCTGGCCATCAGGTCCCTCACTGAGAGGCTTTATGTT	8387
Query	8388		GGGGGCCCCTTTACCAATTCAAGGGGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCGAGC	8447
Sbjct	8388		GGGGGCCCCTTTACCAACTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGTGCGAGC	8447
Query	8448		GGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCC	8507
Sbjct	8448		GGCGTACTGACAACCAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCC	8507
Query	8508		TGTCGAGCCG CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTT	8567
Sbjct	8508		TGTCGAGCCG CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGTGACGACTTAGTCGTT	8567
Query	8568		ATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCT	8627
Sbjct	8568		ATCTGTGAGAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCT	8627
Query	8628		ATGACCAGGTACTCCGgccccccccgggggacccccACAACCAGAATACGACTTGGAGCTT	8687
Sbjct	8628		ATGACCAGGTACTCCGCTCCCCCGGGGACCCCCCAACCAGAATACGACTTGGAGCTC	8687
Query	8688		ATAACATCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTAC	8747
Sbjct	8688		ATAACATCGTGCTCCTCTAACGTGTCAGTCGCCACGATGGCACTGGAAAGAGGGTCTAT	8747
Query	8748		TACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACAC	8807
Sbjct	8748		TACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGGCAC	8807
Query	8808		ACTCCAGTCAATTCC TGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGG	8867

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Sbjct  8808  |||||ACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCTCCTACATTGTGGGCGAGG||| 8867
Query   8868  ATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCT 8927
Sbjct  8868  ATGATACTGATGACCCACTTCTTCAGTGTCTCATAGCCAGGGATCAGCTTGAACAGGCC 8927
Query   8928  CTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATC 8987
Sbjct  8928  CTTGATTGCGAAATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATT 8987
Query   8988  ATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATC 9047
Sbjct  8988  ATTCAAAGACTCCATGGCCTCAGCGCGTTTTCACTCCACAGTTACTCTCCAGGTGAAATC 9047
Query   9048  AATAGGGTGGCCGCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGGAGACAC 9107
Sbjct  9048  AATAGGGTGGCCGCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGGAGACAC 9107
Query   9108  CGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGC 9167
Sbjct  9108  CGGGCCCGGAGCGTCCGCGCTAGACTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGC 9167
Query   9168  AAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAAC TACTCCAATAGCGGCCGCT 9227
Sbjct  9168  AAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAAC TACTCCAATAGCGGCCGCT 9227
Query   9228  GGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCAC 9287
Sbjct  9228  GGCCGGCTGGACTTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCAC 9287
Query   9288  AGCGTGTCTCATGCCCCGGCCCCGCTGGTTCTGGTTTTG CCTACTCCTGCTCGCTGCAGGG 9347
Sbjct  9288  AGCGTGTCTCATGCCCCGGCCCCGCTGGTTCTGGTTCTG CCTACTCCTGCTTGCTGCAGGG 9347
Query   9348  GTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAG 9407
Sbjct  9348  GTAGGCATCTACCTCCTCCCCAACCGATAAAGGTTGGGGTAAACACTCCGGCCTCTTAGG 9407
Query   9408  CCATTTCTGTG~~~~~~ 9466
Sbjct  9408  CCATTTTCTGTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 9467
Query   9467  ~~~~~~ 9489
Sbjct  9468  TTTTTTTTTTTTTTTTTTTTTTTT 9490

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>dbj|E08263.1| gRNA of Hepatitis C virus,HC-J1
Length=9502

Score = 1.486e+04 bits (8046), Expect = 0.0
Identities = 9023/9504 (94%), Gaps = 29/9504 (0%)
Strand=Plus/Plus

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Query   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Sbjct   1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
Sbjct   61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query   121     ~~~~~TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct   121     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query   181      GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Sbjct   181      GACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGCGCCCCC 240
Query   241      GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct   241      GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Query   301      GTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360

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Sbjct	301		GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGATTCCCAAAC	360
Query	361		CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361		CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421		GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421		GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481		GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481		GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541		AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Sbjct	541		AGGTGCGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATG	600
Query	601		GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601		GCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGTT	660
Query	661		GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTTA	720
Sbjct	661		GGGGCCCCACGAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCCTCA	720
Query	721		CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Sbjct	721		CGTGC GGCTTCGCCGACCTCATGGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCG	780
Query	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Sbjct	781		CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATGCAACAG	840
Query	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		GGAACCTTCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		TGCCCCGCTTCAGCCTACCAAGTGC GCAACTCCACAGGGCTTTATCATGTCACCAATGATT	960
Query	961		GCCCTAACTCGAGTATTGTGTACGAGGCGGC-CGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	961		GCCCTAACTCGAGTATTGTGTACGAGGCG-CACGATGCCATCCTGCATACTCCGGGGTGT	1019
Query	1020		GTCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		GTCCCTTGCGTTTCGCGAGGGCAACGTCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTA	1079
Query	1080		GCCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080		GCCACCAGGGACGGCAAAC TCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTC	1139
Query	1140		GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTT	1199
Sbjct	1140		GGGAGCGCCACCCTCTGTTTCGGCCCTCTACGTGGGGGATCTGTGCGGGTCCGTCTTCCTT	1199
Query	1200		GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGT	1259
Sbjct	1200		ATTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACAACGCAAGGCTGCAATTGT	1259
Query	1260		TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGG	1319
Sbjct	1260		TCTATCTACCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGG	1319
Query	1320		TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Sbjct	1320		TCCCCTACGGCGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGAT	1379
Query	1380		ATGATCGCTGGTGCTCACTGGGGAGTCC TGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Sbjct	1380		ATGATCGCTGGTGCTCACTGGGGAGTCC TGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Query	1440		AACTGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA-	1498

Sbjct	1440		AACTGGGCGAAGGTCCTGGTAGTGTCTGTTGCTGTTTGCCGGCGTCGACGCGGAAACC-AT	1498
Query	1499		CGTCACCGGGGGA-AATGCCGGCCGCACCACGGCTGGGCTTGTGGTCTCCTT-ACACCA	1556
Sbjct	1499		CGTCTCCGGGGGACAA-GCCGCCCGCGCCATGTCTGGACTTGTTAGTCTC-TTCACACCA	1556
Query	1557		GGCGCCAAGCAGAACATCCAACCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Sbjct	1557		GGCGCTAAGCAGAACATCCAGCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Query	1617		GCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCT-TCTATCAACA	1675
Sbjct	1617		GCCTTGAACCTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCT-TATCTATCAACA	1675
Query	1676		CAAATTCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Sbjct	1676		CAAATTCAACTCTTCGGGCTGTCCCGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Query	1736		TGCCCAGGGCTGGGGTCTTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTTA	1795
Sbjct	1736		TGACCAGGGCTGGGGCCCTATCAGTCATGCCAACGGAAGCGGCCCGACCAACGCCCTTA	1795
Query	1796		CTGCTGGCACTACCCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCC	1855
Sbjct	1796		TTGTTGGCACTACCCCCCAAACCTTGCGGTATCGTGCCCGCAAAGAGCGTATGTGGCCC	1855
Query	1856		GGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCC	1915
Sbjct	1856		GGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCC	1915
Query	1916		TACCTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACC	1975
Sbjct	1916		TACCTACAACCTGGGGTGCAAATGACACGGACGTCTTCGTCCTCAACAACACCAGGCCACC	1975
Query	1976		GCTGGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGG	2035
Sbjct	1976		GCTGGGCAATTGGTTTCGGTTGCACCTGGATGAACTCAACTGGATTACCAAAGGTATGCGG	2035
Query	2036		AGCGCCCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTG	2095
Sbjct	2036		AGCGCCTCCTTGTGTGATTGGAGGGGGGGGCAACAACACCCTGCACTGCCCCACTGATTG	2095
Query	2096		CTTCCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACC	2155
Sbjct	2096		TTTCCGCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCTGGTCCCTGGATCACACC	2155
Query	2156		CAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACAC	2215
Sbjct	2156		CAGATGCCCTGGTCGACTATCCATATAGGCTTTGGCATTACCCTTGTACCATCAACTATAC	2215
Query	2216		CATATTCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAA	2275
Sbjct	2216		CATTTTTTAAAGTTAGGATGTACGTGGGAGGGGTGAGCACAGGCTGGATGCTGCCTGCAA	2275
Query	2276		CTGGACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTT	2335
Sbjct	2276		CTGGACGCGGGGCGAACGTTGCGATCTGGAAGATAGGGACAGGTCCGAGCTCAGCCCGTT	2335
Query	2336		-GCTGCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCT	2394
Sbjct	2336		CG-TGCTGTCCACCACGCAGTGGCAGGTCCTTCCGTGTTTCATTACGACCCTGCCAGCCT	2394
Query	2395		TGTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGG	2454
Sbjct	2395		TGTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACCTGTACGGGG	2454
Query	2455		TAGGGTCAAGCATCGCGTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTC	2514
Sbjct	2455		TGGGGTCAAGCATCGCGTCTGGGCCATCAAGTGGGAGTACGTCGTTCTCCTGTTTCCTTC	2514
Query	2515		TGCTTGACAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGG	2574
Sbjct	2515		TGCTTGACAGACGCGCGCTGTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAGGCGG	2574
Query	2575		AGGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGC-ACGGT	2633

Sbjct	2575	 AGGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCGA--GGT	2633
Query	2634	CTTGTGTCCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCC	2693
Sbjct	2634	CTTGTATCCTTCCTCGTGTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCC	2693
Query	2694	GGAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCT	2753
Sbjct	2694	GGAGCGGCCTACGCCCTCTACGGGATGTGGCCCTGCTCCTGCTCCTGTTAGCGTTGCCC	2753
Query	2754	CAGCGGGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTG	2813
Sbjct	2754	CAGCGGGCATAACGCGTTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTG	2813
Query	2814	GGGTAAATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCAATGTGG	2873
Sbjct	2814	GGGTAAATGGCGCTGACCTGTACCATATTACAAGCGCTGTATCAGCTGGTGCTTATGG	2873
Query	2874	TGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccCTC	2933
Sbjct	2874	TGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAATTGCACGTGTGGGTTCCCCCCCCTC	2933
Query	2934	AACGTCC yyyyyyyy CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTG	2993
Sbjct	2934	AACGTTGAGGAGGGCGCGACGCCGTCATCTTACTCATGTGTGTTGTACACCCGACTCTG	2993
Query	2994	GTATTTGACATCACCAAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCC	3053
Sbjct	2994	GTATTTGACATCACCAAATACTGCTGGCCGTCCTGGGACCCCTTTGGATTCTCCAAGCC	3053
Query	3054	AGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTA	3113
Sbjct	3054	AGTTTGCTTAAAGTACCCTACTTCGTGCGCGTCCAAGGCCTTCTCCGGATCTGCGCGCTG	3113
Query	3114	GCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTT	3173
Sbjct	3114	GCGCGGAAGATGGTCGGAGGCCATTACGTGCAAATGGCTATCATCAAGTTAGGGGCGCTT	3173
Query	3174	ACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTG	3233
Sbjct	3174	ACTGGCACCTATGTTTATAATCACCTGACTCCTCTTCGGGACTGGGCGCACAAACGGCCTG	3233
Query	3234	CGAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATC	3293
Sbjct	3234	CGAGACCTGGCCGTGGCCGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATC	3293
Query	3294	ACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCC	3353
Sbjct	3294	ACGTGGGGGGCGGACACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCCGCC	3353
Query	3354	CGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGG	3413
Sbjct	3354	CGTAAGGGCCGGGAGATACTGCTCGGACCAGCCGATGGAATGGTCTCCAAGGGGTGGAGG	3413
Query	3414	TTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATC	3473
Sbjct	3414	TTGCTGGCGCCCATTACGGCGTACGCCAGCAGACAAGGGGCCCTCTAGGGTGTATAATC	3473
Query	3474	ACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACT	3533
Sbjct	3474	ACCAGCCTAACTGGCCGGGATAAAAAACCAAGTGGAGGGCGAGGTCCAGATTGTGTCAACT	3533
Query	3534	GCTACCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGG	3593
Sbjct	3534	GCTGCCCAAACCTTTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGG	3593
Query	3594	GCCGGAACGAGGACCATCGCATCACCCAAGGTCCTGTCATCCAGATGTATAACCAATGTG	3653
Sbjct	3594	GCCGGAACGAGGACCATCGCATCACCCAAGGTCCTGTTATCCAGATGTATAACCAACGTA	3653
Query	3654	GACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCCTCATTGACACCCTGTACC	3713
Sbjct	3654	GACCAAGACCTCGTTGGCTGGCCCGCTCCTCAAGGTGCCCGCTCATTGACACCCTGCACC	3713
Query	3714	TGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGG	3773

Sbjct	3714		TGCGGCTCCTCGGACCTTTACTTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGG	3773
Query	3774		CGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCC	3833
Sbjct	3774		CGGGGTGATAGCAGGGGCAGCCTGCTGTACCCCGGCCCATTTCTACTTGAAAGGCTCC	3833
Query	3834		TCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTG	3893
Sbjct	3834		TCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGTCTAGGCATATTCAGGGCCGCGGTG	3893
Query	3894		TGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACC	3953
Sbjct	3894		TGCACCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAGCCTAGAGACAACC	3953
Query	3954		ATGAGATCCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAG	4013
Sbjct	3954		ATGAGGTCCCCGGTGTTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAG	4013
Query	4014		GTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTAC	4073
Sbjct	4014		GTGGCCACCTGCATGCTCCACCGGCAGCGGCAAGAGACCAAGGTCCCGGCTGCATAT	4073
Query	4074		GCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTT	4133
Sbjct	4074		GCAGCTCAGGGCTATAAGGTGCTAGTGCTCAACCCCTCTGTTGCCGCAACACTGGGCTTT	4133
Query	4134		GGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACA	4193
Sbjct	4134		GGTGCTTACATGTCCAAGGCCACGGGATTGATCCTAATATCAGGACCGGGGTGAGAACA	4193
Query	4194		ATTACCACCTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGG	4253
Sbjct	4194		ATTACCACCTGGCAGCCCCATCACGTACTCTACCTACGGCAAGTTCCTTGCTGATGGCGGG	4253
Query	4254		TGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACA	4313
Sbjct	4254		TGCTCGGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACA	4313
Query	4314		TCCATCTTGGGCATCGGCACTGTCCCTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTT	4373
Sbjct	4314		TCCGTCTTGGGCATCGGTACCGTCCCTGACCAGGCAGAGACCGCGGGGGCGAGACTGGTT	4373
Query	4374		GTGCTCGCCACTGCTACCCCTCCGGGCTCCG-TCACTGTGTCCCAT-CCTAACATCGAGG	4431
Sbjct	4374		GTGCTCGCCACCGCCACCCCTCCGGGCTC-GATCACCGTGCCCCATGCC-AACATCGAGG	4431
Query	4432		AGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGG	4491
Sbjct	4432		AGGTCGCTCTGTCCACCACCGGAGAGATCCCATTTTACGGCAAGGCCATCCCCCTCGAAG	4491
Query	4492		TGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCG	4551
Sbjct	4492		CAATCAAGGGGGGAGACATCTCATTTTCTGCCACTCAAAAAAAAAAGTGTGACGAGCTCG	4551
Query	4552		CCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGT	4611
Sbjct	4552		CCGCGAAGCTGGTCGCATTGGGCGTCAATGCTGTGGCCTACTACCGCGGTCTTGACGTGT	4611
Query	4612		CTGTCATCCCGACCAGCGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCT	4671
Sbjct	4612		CTGTCATCCCGACCAGCGCGATGTTGTTGTCTGTTGGCAACTGATGCTCTCATGACTGGCT	4671
Query	4672		TTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATT	4731
Sbjct	4672		ATACCGGCGACTTCGACTCGGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATT	4731
Query	4732		TCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCA	4791
Sbjct	4732		TCAGCCTTGACCCTACCTTCACCATTGAGACAACCACGCTTCCCCAGGATGCTGTCTCCC	4791
Query	4792		GGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCAC	4851
Sbjct	4792		GCACTCAGCGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCAC	4851
Query	4852		CGGGGGAGCGCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGG	4911

Sbjct	4852		CGGGGGAGCGTCCTTCCGGCATGTTTCGACTCGTCCATCCTCTGTGAGTGCTATGACACGG	4911
Query	4912		GCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGA	4971
Sbjct	4912		GCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTGCGAGCGTACATGA	4971
Query	4972		ACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGG	5031
Sbjct	4972		ACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAG	5031
Query	5032		GCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTC	5091
Sbjct	5032		GCCTCACCACATATAGATGCCCACTTCCTATCCCAGACAAAGCAGGGTGGGGAGAACTTTC	5091
Query	5092		CTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGT	5151
Sbjct	5092		CTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGT	5151
Query	5152		GGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCC	5211
Sbjct	5152		GGGACCAGATGTGGAAGTGCTTGATCCGCCTCAAACCCACCCTCCATGGGCCAACACCTC	5211
Query	5212		TGCTATACAGACTGGGCGCTGTTTCAAGTGAAGTCACCCTGACGCACCCAATCACCAAAT	5271
Sbjct	5212		TGCTATACAGACTGGGCGCTGTTCCAGGGTGAAGTCACCCTGACGCACCCAGTCACCAAAT	5271
Query	5272		ACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTG	5331
Sbjct	5272		ACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTG	5331
Query	5332		GCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGG	5391
Sbjct	5332		GCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTGACAGGCTGCGTGGTCATAGTGG	5391
Query	5392		GCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGG	5451
Sbjct	5392		GCAGGATTGTCTTGTCCGGGAGGCCGGCAATCATACCAGACAGGGAAGTTCTCTACCAGG	5451
Query	5452		AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGC	5511
Sbjct	5452		AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTATATCGAACAAGGGATGATGC	5511
Query	5512		TCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAG	5571
Sbjct	5512		TCGCCGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAGGCAG	5571
Query	5572		AGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGC	5631
Sbjct	5572		AGGTTATCGCCCCCTACTGTCCAAACCAACTGGCAAAACTCGAGGCCTTCTGGGCGAAGC	5631
Query	5632		ACATGTGGAATTTTCATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTA	5691
Sbjct	5632		ATATGTGGAATTTTCATCAGTGGGATAACAATAATTGGCGGGCCTGTCAACGTTGCCTGGCA	5691
Query	5692		ACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTG	5751
Sbjct	5692		ACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCCTA	5751
Query	5752		GCCAAACCCCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCG	5811
Sbjct	5752		GCCAAACCCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCTCAGCTCGCCGCCCCCG	5811
Query	5812		GTGCCGCTACTGCCTTTGTGGG-TGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGA	5870
Sbjct	5812		GTGCCGCCACCGCCTTTGTGGGCTCC-GGCTTGGCTGGCGCCGCCGTCGGCAGTGTCCGA	5870
Query	5871		CTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGGAGCTCTT	5930
Sbjct	5871		CTGGGGAGGGTCCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGGGCTCTT	5930
Query	5931		GTAGCATTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTG	5990
Sbjct	5931		GTAGCATTTAAAATCATGAGCGGTGAGCTCCCCCTCCACAGAGGACCTGGTCAATCTACTG	5990
Query	5991		CCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGC	6050

Sbjct	5991		6050
Query	6051	CGGCACGTTGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCC	6110
Sbjct	6051	CGGCACGTCGGCCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCC	6110
Query	6111	TCCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCG	6170
Sbjct	6111	TCCCCGAGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGC	6170
Query	6171	GTCAC TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGG	6230
Sbjct	6171	GTCAC TGCCATACTCAGCAGCCTCACTGTGACCCAGCTCCTGAGGCGACTACACCAGTGG	6230
Query	6231	ATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGG	6290
Sbjct	6231	CTAAGCTCGGAGAGCACTACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGG	6290
Query	6291	ATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTG	6350
Sbjct	6291	ATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTAAAAACCAAGCTCATGCCACATCTG	6350
Query	6351	CCTGGGATTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGC	6410
Sbjct	6351	CCTGGGATTCCCTTTGTGTCTGCCAGCACGGGTATAAGGGGGTCTGGCGGGGGGACGGC	6410
Query	6411	ATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACG	6470
Sbjct	6411	ATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGAACG	6470
Query	6471	ATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAC	6530
Sbjct	6471	ATGAGGATCGTCGGTCTAAGACCTGTAGGAACATGTGGAGTGGGACCTTCCCCATTAAC	6530
Query	6531	GCCTACACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGG	6590
Sbjct	6531	GCCTACACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAACACACGTTTCGCGCTATGG	6590
Query	6591	AGGGTGCTGTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATC	6649
Sbjct	6591	AGGGTGCTGTCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTGA-C	6649
Query	6650	GGGTATGACTACTGACAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTTAC	6709
Sbjct	6650	AGGCATGACTACTGATAATCTCAAATGCCCCGTGCCAGTCCCATCGCCCCGAATTTTTTAC	6709
Query	6710	AGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGA	6769
Sbjct	6710	AGAATTGGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGA	6769
Query	6770	GGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGA	6829
Sbjct	6770	GGAGGTATCATTCAGGGTAGGACTCCACGATTACCCGGTGGGGTCGCAATTACCTTGCGA	6829
Query	6830	GCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGC	6889
Sbjct	6830	GCCCGAACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGC	6889
Query	6890	AGAGGCGGCGGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCT-ATGGCCAGCTCCTCG	6947
Sbjct	6890	AGCGGCGGCGGGGAGAAGGTTGGCGAG-GGGATCACCCCTTCTGA-GGCCAGCTCCTCG	6947
Query	6948	GCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCAACGCCAACCATGACTCCCCT	7007
Sbjct	6948	GCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCAACCATCAACCATGACTCCCCT	7007
Query	7008	GACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACC	7067
Sbjct	7008	GACGCCGAGCTCATAGAAGCTAACCTCCTATGGAGGCAAGAGATGGGCGGCAACATCACC	7067
Query	7068	AGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAG	7127
Sbjct	7068	AGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAG	7127
Query	7128	GAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCC	7187

Sbjct	7128	 GAGGACGAGCGGGAGATCTCCGTGCCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCCACC	7187
Query	7188	CGGGCCCTGCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCT-AGTAGAGACGTGGAA	7246
Sbjct	7188	CAGGCCCTGCCTATTTGGGCGCGGCCGGACTATAACCCCCCGCTGA-TAGAGACGTGGAA	7246
Query	7247	AAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCC	7306
Sbjct	7247	AAAGCCTAACTATGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCACAGTCCCC	7306
Query	7307	TCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTAC	7366
Sbjct	7307	TCCTGTGCCTCCGCCTCGGAAAAAGCGGACGGTGGTCTCACCGAATCGACCCCTATCCAC	7366
Query	7367	TGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGG	7426
Sbjct	7367	TGCCTTGGCCGAGCTTGCCGCTAAAAGTTTCGGCAGTTCTCAACTTCCGGCATTACGGG	7426
Query	7427	CGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGT	7486
Sbjct	7427	CGACAATACGACAACGTCTCTGAGCCCGCCCCCTTCTGGCTGTTCCCCAGACTCCGACGC	7486
Query	7487	TGAGTCCTATTCTTCCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGA	7546
Sbjct	7487	TGAGTCCTATTCTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGA	7546
Query	7547	CGGGTCATGGTTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAAT	7606
Sbjct	7547	CGGGTCATGGTTCGACGGTCAGTAGTGAGGCCGGCAGGGAAGACGTTGTGTGCTGCTCAAT	7606
Query	7607	GTCTTATTCTTGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCC	7666
Sbjct	7607	GTCTTATACTTGGACAGGCGCACTTATCACCCCGTGCCTGCGCGGGAAGAACAAAACTGCC	7666
Query	7667	CATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTC	7726
Sbjct	7667	CATTAAACGCACTGAGCAACTCGTTGCTACGTCACCACAACCTGGTGTACTCCACCACCTC	7726
Query	7727	ACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAG	7786
Sbjct	7727	ACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAG	7786
Query	7787	CCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTT	7846
Sbjct	7787	CCACTACCAGGACGTGCTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTT	7846
Query	7847	GCTATCCGTAGAGGAAGCTTGACAGCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGG	7906
Sbjct	7847	GCTATCCGTAGAGGAAGCTTGACAGCTGACGCCCCCGCACTCAGCCAAATCCAAGTTTGG	7906
Query	7907	CTATGGGGCAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGT	7966
Sbjct	7907	CTATGGGGCAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAAACCACATCAACTCCGT	7966
Query	7967	GTGGAAAGACCTTCTGGAAGACAGTGTAAACCAATAGACACTACCATCATGGCCAAGAA	8026
Sbjct	7967	GTGGAAAGACCTTCTGGAAGACAGTGTAAACCAATACAACTACCATCATGGCTAAGAA	8026
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Sbjct	8087	CCCCGATCTGGGTGTGCGCTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCT	8146
Query	8147	CCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGA	8206
Sbjct	8147	CCCCCGGCGCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGA	8206
Query	8207	ATTCCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCG	8266
Sbjct	8207	GTTCCCTCGTGCAAGCGTGGAAGTCCAAGAGGACCCCAATGGGGTTCTCGTATGATACCCG	8266
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Sbjct	8267		CTGCTTTGACTCCACAGTCACTGAGAGCGATATCCGTACGGAGGAGGCAATCTACCAATG	8326
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Sbjct	8327		TTGTGACCTGGACCCCCAAGCCCGGTGGCCATCAGGTCCCTCACTGAGAGGCTTTATGT	8386
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Sbjct	8507		CTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGTGACGACTTAGTCGT	8566
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Sbjct	8567		TATCTGTGAGAGTGC GGGGGTCCAGGAGGACGCGCGAGCCTGAGAGCCTTCACGGAGGC	8626
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Sbjct	8627		TATGACCAGGTACTCCGCTCCCCCGGGGACCCCCCCCCAACCAAGAAATACGACTTGGAGCT	8686
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Sbjct	8687		CATAACATCGTGCTCCTCTAACGTGTCAGTCGCCCACGATGGCACTGGAAAGAGGGTCTA	8746
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Sbjct	8807		CACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCTCCTACATTGTGGGCGAG	8866
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Sbjct	8867		GATGATACTGATGACCCACTTCTTCAGTGTCTCATAGCCAGGGATCAGCTTGAACAGGC	8926
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Sbjct	8987		TATTCAAAGACTCCATGGCCTCAGCGCGTTTTTCACTCCACAGTTACTCTCCAGGTGAAAT	9046
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Sbjct	9167		CAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGC	9226
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Sbjct	9287		CAGCGTGTCTCATGCCCCGGCCCCGCTGGTTCCTGGTTCCTGCCTACTCCTGCTTGTGTCAGG	9346
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Sbjct	9347		GGTAGGCATCTACCTCCTCCCCAACCGATAAAGGTTGGGGTAAACACTCCGGCCTCTTAG	9406
Query	9407		GCCATTTCTCTG	9465

[illegible]

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>emb|AX100563.1| Sequence 1 from Patent W00121807
Length=9518
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Sort alignments for this subject sequence

E value	Score	Percent identity	Query start position	Subject start position
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Identities = 8028/8028 (100%), Gaps = 0/8028 (0%)
Strand=Plus/Plus

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Query	1632	GAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCA	1691
Sbjct	1551	GAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCA	1610
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Sbjct	1611	GGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCAGGGCTGGGGT	1670
Query	1752	CCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCT	1811
Sbjct	1671	CCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCT	1730
Query	1812	CCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACT	1871
Sbjct	1731	CCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACT	1790
Query	1872	CCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGT	1931
Sbjct	1791	CCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGT	1850
Query	1932	GCAAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTC	1991
Sbjct	1851	GCAAAATGATACGGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTC	1910
Query	1992	GGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTC	2051
Sbjct	1911	GGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTC	1970
Query	2052	ATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCG	2111
Sbjct	1971	ATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCG	2030
Query	2112	GAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGAC	2171
Sbjct	2031	GAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGAC	2090
Query	2172	TACCCGTATAGGCTTTGGCACTATCCTTGTAACATCAATTACACCATATTCAAAGTCAGG	2231
Sbjct	2091	TACCCGTATAGGCTTTGGCACTATCCTTGTAACATCAATTACACCATATTCAAAGTCAGG	2150
Query	2232	ATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAA	2291
Sbjct	2151	ATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAA	2210
Query	2292	CGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCGTTGCTGCTGTCCACCACA	2351
Sbjct	2211	CGCTGTGATCTGGAAGACAGGGACAGGTCAGAGCTCAGCCCGTTGCTGCTGTCCACCACA	2270
Query	2352	CAGTGGCAGGTCCTTCCGTGTTCTTTACGACCTGCCAGCCTTGTCACCGGCCTCATC	2411
Sbjct	2271	CAGTGGCAGGTCCTTCCGTGTTCTTTACGACCTGCCAGCCTTGTCACCGGCCTCATC	2330
Query	2412	CACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCG	2471

Sbjct	2331		CACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCG	2390
Query	2472		TCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCCCTTCTGCTTGCAGACGCGCGC	2531
Sbjct	2391		TCCTGGGCCATTAAAGTGGGAGTACGTCGTTCTCCTGTTCCCTTCTGCTTGCAGACGCGCGC	2450
Query	2532		GTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAAC	2591
Sbjct	2451		GTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAAC	2510
Query	2592		CTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCCTCGTG	2651
Sbjct	2511		CTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCCTCGTG	2570
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Sbjct	2571		TTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGGTCTACGCCCTC	2630
Query	2712		TACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGACTG	2771
Sbjct	2631		TACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGACTG	2690
Query	2772		GACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTAAATGGCGCTGACT	2831
Sbjct	2691		GACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTAAATGGCGCTGACT	2750
Query	2832		CTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTG	2891
Sbjct	2751		CTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTG	2810
Query	2892		ACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCCCGGGGGCGC	2951
Sbjct	2811		ACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACCGTCCCGGGGGGGGCGC	2870
Query	2952		GATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAA	3011
Sbjct	2871		GATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAA	2930
Query	3012		CTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCC	3071
Sbjct	2931		CTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCC	2990
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Sbjct	2991		TACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGA	3050
Query	3132		GGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTAT	3191
Sbjct	3051		GGTCATTACGTGCAAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTAT	3110
Query	3192		AACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCT	3251
Sbjct	3111		AACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCT	3170
Query	3252		GTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACC	3311
Sbjct	3171		GTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACC	3230
Query	3312		GCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATA	3371
Sbjct	3231		GCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATA	3290
Query	3372		CTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACG	3431
Sbjct	3291		CTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACG	3350
Query	3432		GCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGG	3491
Sbjct	3351		GCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGG	3410
Query	3492		GACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTG	3551
Sbjct	3411		GACAAAAACCAAGTGGAGGGTGAAGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTG	3470
Query	3552		GCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATC	3611

Sbjct	3471		GCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATC	3530
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Sbjct	3531		GCATCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGTGGGC	3590
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Sbjct	3591		TGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTT	3650
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Sbjct	3651		TACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGT	3710
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Sbjct	3831		AAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTT	3890
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Sbjct	3891		ACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCT	3950
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Sbjct	4011		GTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAG	4070
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Sbjct	4071		GCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCC	4130
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Sbjct	4191		GACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGC	4250
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Sbjct	4311		CCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACC	4370
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Sbjct	4431		CTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTG	4490
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Sbjct	4491		GGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCCCGACCAGCGGC	4550
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Sbjct	4551		GATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCT	4610
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Sbjct	4671		ACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGG	4730
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Sbjct	4851		ACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTG	4910
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Sbjct	4971		CACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAA	5030
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Sbjct	5031		GCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGT	5090
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Sbjct	5091		TTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCT	5150
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Sbjct	5151		G TTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATGTCG	5210
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Sbjct	5211		GCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTG	5270
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Sbjct	5271		GCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGG	5330
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Sbjct	5331		AAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAG	5390
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Sbjct	5391		TGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAG	5450
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Sbjct	5451		AAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTC	5510
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Sbjct	5511		CAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGT	5570
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Sbjct	5571		GGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTG	5630
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Sbjct	5631		ATGGCTTTTACAGCTGCCGTCACCAGCCCCTAACCCTGGCCAAACCCCTCCTCTTCAAC	5690
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Sbjct	5691		ATATTGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTG	5750
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Sbjct	5751		GGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGAC	5810
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Sbjct	5811		ATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGC	5870
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Sbjct	5871		GGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCATCCTCTCGCCTGGA	5930
Query	6012		GCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGGGCGAG	6071
Sbjct	5931		GCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGGGCGAG	5990
Query	6072		GGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCC	6131
Sbjct	5991		GGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCC	6050
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Sbjct	6051		CCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGC	6110
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Sbjct	6111		CTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACT	6170
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Sbjct	6171		CCATGCTCCGGTTCCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGAC	6230
Query	6312		TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCCTGGGATTCCCTTTGTGTCC	6371
Sbjct	6231		TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACAGCCTGGGATTCCCTTTGTGTCC	6290
Query	6372		TGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCAC	6431
Sbjct	6291		TGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCAC	6350
Query	6432		TGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGG	6491
Sbjct	6351		TGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGG	6410
Query	6492		ACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGT	6551
Sbjct	6411		ACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGT	6470
Query	6552		ACTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATAC	6611
Sbjct	6471		ACTCCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATAC	6530
Query	6612		GTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTT	6671
Sbjct	6531		GTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTT	6590
Query	6672		AAATGCCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTA	6731
Sbjct	6591		AAATGCCCCGTGCCAGATCCCATCGCCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTA	6650
Query	6732		CACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGA	6791
Sbjct	6651		CACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGA	6710
Query	6792		CTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCGGACGTAGCCGTG	6851
Sbjct	6711		CTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCGGACGTAGCCGTG	6770
Query	6852		TTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTG	6911
Sbjct	6771		TTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTG	6830
Query	6912		GCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCT	6971
Sbjct	6831		GCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCT	6890
Query	6972		CTCAAGGCAACTTGCACCGCCAACCATGACTCCCCCTGACGCCGAGCTCATAGAGGCTAAC	7031

Sbjct	6891		CTCAAGGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAAC	6950
Query	7032		CTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTG	7091
Sbjct	6951		CTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTG	7010
Query	7092		GTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTA	7151
Sbjct	7011		GTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTA	7070
Query	7152		CCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGG	7211
Sbjct	7071		CCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGG	7130
Query	7212		CCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTG	7271
Sbjct	7131		CCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTG	7190
Query	7272		GTCCATGGCTGCCCCTACCACTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAG	7331
Sbjct	7191		GTCCATGGCTGCCCCTACCACTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAG	7250
Query	7332		CGTACGGTGGTCCCTACCGAATCAACCCATCTACTGCCTTGGCCGAGCTTGCCACCAAA	7391
Sbjct	7251		CGTACGGTGGTCCCTACCGAATCAACCCATCTACTGCCTTGGCCGAGCTTGCCACCAAA	7310
Query	7392		AGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAG	7451
Sbjct	7311		AGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAG	7370
Query	7452		CCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCC	7511
Sbjct	7371		CCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCC	7430
Query	7512		CTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGT	7571
Sbjct	7431		CTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGT	7490
Query	7572		GGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTC	7631
Sbjct	7491		GGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTC	7550
Query	7632		GTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCACTGAGCAACTCGTTG	7691
Sbjct	7551		GTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCACTGAGCAACTCGTTG	7610
Query	7692		CTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAG	7751
Sbjct	7611		CTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAG	7670
Query	7752		AAAGTCACATTTGACAGACTGCAAGTTCGGACAGCCATTACCAGGACGTGCTCAAGGAG	7811
Sbjct	7671		AAAGTCACATTTGACAGACTGCAAGTTCGGACAGCCATTACCAGGACGTGCTCAAGGAG	7730
Query	7812		GTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGC	7871
Sbjct	7731		GTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGC	7790
Query	7872		CTGACGCCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGC	7931
Sbjct	7791		CTGACGCCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGC	7850
Query	7932		CATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGT	7991
Sbjct	7851		CATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGT	7910
Query	7992		GTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTGAG	8051
Sbjct	7911		GTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTGAG	7970
Query	8052		AAGGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGACCTGGGCGTGCGCGTGTGC	8111
Sbjct	7971		AAGGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTTCCCCGACCTGGGCGTGCGCGTGTGC	8030
Query	8112		GAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCC	8171

Sbjct	8031		GAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCC	8090
Query	8172		TACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCC	8231
Sbjct	8091		TACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCC	8150
Query	8232		AAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAG	8291
Sbjct	8151		AAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAG	8210
Query	8292		AGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGC	8351
Sbjct	8211		AGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGC	8270
Query	8352		GTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGG	8411
Sbjct	8271		GTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGG	8330
Query	8412		GGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGT	8471
Sbjct	8331		GGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACTAGCTGTGGT	8390
Query	8472		AACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGAC	8531
Sbjct	8391		AACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGAC	8450
Query	8532		TGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAG	8591
Sbjct	8451		TGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAG	8510
Query	8592		GAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8651
Sbjct	8511		GAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8570
Query	8652		gggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTG	8711
Sbjct	8571		GGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTG	8630
Query	8712		TCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACC	8771
Sbjct	8631		TCAGTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACC	8690
Query	8772		CCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGC	8831
Sbjct	8691		CCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGC	8750
Query	8832		AACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTT	8891
Sbjct	8751		AACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTT	8810
Query	8892		AGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCC	8951
Sbjct	8811		AGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCC	8870
Query	8952		TGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGC	9011
Sbjct	8871		TGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGC	8930
Query	9012		GCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGA	9071
Sbjct	8931		GCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGA	8990
Query	9072		AAACTTGGGGTCCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGG	9131
Sbjct	8991		AAACTTGGGGTCCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGG	9050
Query	9132		CTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTA	9191
Sbjct	9051		CTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTA	9110
Query	9192		AGAACAAAGCTCAAAC TCACTCCAATAGCGCCGCTGGCCGGCTGGACTTGTCCGGTTGG	9251
Sbjct	9111		AGAACAAAGCTCAAAC TCACTCCAATAGCGCCGCTGGCCGGCTGGACTTGTCCGGTTGG	9170
Query	9252		TTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCCGGCCCCGC	9311

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Sbjct  9171  |||||TTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGGC 9230
Query  9312  TGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAAC 9371
Sbjct  9231  TGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAAC 9290
Query  9372  CGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTG***** 9431
Sbjct  9291  CGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTTTTTTTTTTTTTT 9350
Query  9432  *****ctt*****ctt*****ctt*****ctt*****ctt*****ctt***** 9491
Sbjct  9351  TTTTTTTTTTTTTTCTTTTTTTTTTCTTTCTTTCTTTCTTTTTTTCTTTCTTTTCTTCC 9410
Query  9492  *****AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAG 9551
Sbjct  9411  CTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAG 9470
Query  9552  CCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct  9471  CCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9518
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Score = 2752 bits (1490), Expect = 0.0
Identities = 1490/1490 (100%), Gaps = 0/1490 (0%)
Strand=Plus/Plus

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Query  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG 60
Sbjct  1      GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTG 60
Query  61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
Sbjct  61      TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120
Query  121     ccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct  121     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query  181     GACGACCGGGTCCTTTCTTGGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 240
Sbjct  181     GACGACCGGGTCCTTTCTTGGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC 240
Query  241     GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct  241     GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAGG 300
Query  301     GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Sbjct  301     GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
Query  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
Sbjct  361     CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
Query  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct  421     GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Query  481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Sbjct  481     GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
Query  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG 600
Sbjct  541     AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTATG 600
Query  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Sbjct  601     GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660
Query  661     GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA 720
Sbjct  661     GGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGATACCCTTA 720
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Query 721 CGTGC GGC TTCGCC GACCTCAT GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG 780
      |||
Sbjct 721 CGTGC GGC TTCGCC GACCTCAT GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCG 780

Query 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG 840
      |||
Sbjct 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAG 840

Query 841 GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG 900
      |||
Sbjct 841 GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCCTGACTG 900

Query 901 TGCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960
      |||
Sbjct 901 TGCCCGCTTCAGCCTACCAAGTGC GCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960

Query 961 GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG 1020
      |||
Sbjct 961 GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG 1020

Query 1021 TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080
      |||
Sbjct 1021 TCCCTTGCGTTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080

Query 1081 CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG 1140
      |||
Sbjct 1081 CCACCAGGGACGGCAAAC TCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG 1140

Query 1141 GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG 1200
      |||
Sbjct 1141 GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTG 1200

Query 1201 TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT 1260
      |||
Sbjct 1201 TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT 1260

Query 1261 CTATCTATCCCGCCATATAACGGGT CATCGCATGGCATGGGATATGATGATGAAC TGGT 1320
      |||
Sbjct 1261 CTATCTATCCCGCCATATAACGGGT CATCGCATGGCATGGGATATGATGATGAAC TGGT 1320

Query 1321 CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA 1380
      |||
Sbjct 1321 CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA 1380

Query 1381 TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA 1440
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Sbjct 1381 TGATCGCTGGTGTCTCACTGGGGAGTCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA 1440

Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCG 1490
      |||
Sbjct 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTGCTATTTGCCGGCGTCGACGCG 1490
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>**dbj|BD426989.1** | METHODS FOR CULTURING HCV IN EUKARYOTIC CELLS
Length=9185

Score = 1.482e+04 bits (8027), Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

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Query 23 CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 82
      |||
Sbjct 1 CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 60

Query 83 CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA???????TCCGGGAGAGCCATA 142
      |||
Sbjct 61 CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCGGGAGAGCCATA 120

Query 143 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGGA 202
      |||
Sbjct 121 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTTTCTTGGA 180

Query 203 TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 262
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Sbjct 181 TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 240
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Query	263	GTTGGGTCGCGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTCGCGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCCTCGCCACAGGACGTCAAGTTCCTCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCCTCGCCACAGGACGTCAAGTTCCTCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTACGCCATATCCCCAAGGCACGTGCGCCCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTACGCCATATCCCCAAGGCTCGTTCGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAATTCTCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTACATCGATCTGCTTGTGCGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTACATCGATCTGCTTGTGCGGAGCGCCACCCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGGCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACCTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380

Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAGTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTGTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCATTGTTGCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCATTGTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTTCGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTGCAGTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCAGGTGCCTGGTGCAGTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTGAGACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTGGAACACAGGCTGGAAGCTGCCGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCTTACAACCTTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTGAGACGCGCGCTGTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTGTTCTCCTGTTCTTCTGCTTGAGACGCGCGCTGTGCTCCTG	2520

Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCGAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCCTGTCGCGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTTCAACGTCCCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658

Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCTATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCTATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGCGCGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGCTGTGCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCGGTCATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCAGACAGTCGATTTAGCCTTGACCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798

Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCC GCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCC GCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC GGGGCTTCCC GTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC GGGGCTTCCC GTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTT TA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTT TA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATTCCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGTTTCTTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTGGG	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	GGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937

Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCAGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074

Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTTCCATG????TGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCTATTCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTGATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAACTGCCCATCAATGCCTAAGCAACTCGTTGTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGAC	7854
Query	7877	GCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAAACCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213

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Query 8236 AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG 8295
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Sbjct 8214 AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG 8273

Query 8296 ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCAAGCCCGCGTGG 8355
      |||||
Sbjct 8274 ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCAAGCCCGCGTGG 8333

Query 8356 CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG 8415
      |||||
Sbjct 8334 CCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG 8393

Query 8416 AAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCTGTGGTAACA 8475
      |||||
Sbjct 8394 AGAACTGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCTGTGGTAACA 8453

Query 8476 CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA 8535
      |||||
Sbjct 8454 CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA 8513

Query 8536 CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG 8595
      |||||
Sbjct 8514 CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG 8573

Query 8596 ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG 8655
      |||||
Sbjct 8574 ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG 8633

Query 8656 8656ACAACCAGAATACGACTTGAGGCTTATAACATCATGCTCCTCCAACGTGTCAG 8715
      |||||
Sbjct 8634 ACCCCCCACAACCAGAATACGACTTGAGGCTCATAACATCATGCTCCTCCAACGTGTCAG 8693

Query 8716 TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTACCCGTGACCCTACAACCCCC 8775
      |||||
Sbjct 8694 TCGCCACGACGCGCTGGAAAGAGGGTCTACTACCTACCCGTGACCCTACAACCCCC 8753

Query 8776 TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACA 8835
      |||||
Sbjct 8754 TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACA 8813

Query 8836 TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG 8895
      |||||
Sbjct 8814 TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG 8873

Query 8896 TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT 8955
      |||||
Sbjct 8874 TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT 8933

Query 8956 ACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT 9015
      |||||
Sbjct 8934 ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT 8993

Query 9016 TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC 9075
      |||||
Sbjct 8994 TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC 9053

Query 9076 TTGGGGTCCC GCCCTTGCGAGCTTGAGAGACACCGGGCCGAGCGTCCGCGCTAGGCTTC 9135
      |||||
Sbjct 9054 TTGGGGTACC GCCCTTGCGAGCTTGAGAGACACCGGGCCGAGCGTCCGCGCTAGGCTTC 9113

Query 9136 TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9195
      ||
Sbjct 9114 TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9173

Query 9196 CAAAGCTCAAAC 9207
      |||||
Sbjct 9174 CAAAGCTCAAAC 9185
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>dbj|BD091382.1| HCV cultivation method in eucaryotic cells
Length=9185

Score = 1.482e+04 bits (8027), Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTGCGCAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTGCGCAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTGCGAACCTCGAGGTAGACGTACGCCATATCCCCAAGGCACGTGCGCCCCGAGGGCAG	562
Sbjct	481	GCGGTGCGAACCTCGAGGTAGACGTACGCCATATCCCCAAGGCTCGTTCGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTGCGCAATTTGGGTAAGGTCATCGATACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	900
Query	923	GCGCAATTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACTGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140

Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGGCAACTGTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAAC	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAAGTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAAGTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAGTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAGTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTCCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTCCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAGTAT	1582
Sbjct	1501	CACTGTGTCTGGATTGTGTAGCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCATTGTTGCCAGGGCTGGGGTCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCATTGTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCGATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCAAAGAGTGTGTGTGGTCCGATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTTTCGTCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGTTGTACCTG	2002
Sbjct	1921	GGACGCTTTCGTCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTGCAGTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCAGGTGCCTGGTGCAGTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280

Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCCTGTTCCCTTACAACCCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGACGGGGTAGGGTCAAGCATCGCGTCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGACGGGGTGGGGTCAAGCATCGCGTCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGTCCTTCTCCTGTTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGATATCCTTCTCCTGTTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAAGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCGAGCGGGCTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTGTCGGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTCAACGTCCCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCCTTCTCCGGATCTGCGCGTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418

Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGC GGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCCTGTCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCCTGTCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558

Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCCCGACCAGCGGCGATGTTGTCTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTTCATCCCGACCAGCGGCGATGTTGTCTC	4618
Query	4641	GTCGTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATAACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCCAGACAGTCGATTTAGCCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCCGCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGCTATGACGCGAGGCTGTGCTTGGTATGAGCTCACGCCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	5159	CTCAAGCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTACAGACACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTACAGACACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGTTTCTTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGTTATCGCCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697

Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	gggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	6237
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACATACAGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835

Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
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Query	6918	GGG-TCACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
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Query	6977	GGCAACTTGACCCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGACCCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCGAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCGCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
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Sbjct	7435	CCCTTCTGGCTGCCCCCCCAGCTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCTGGA	7494
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Sbjct	7495	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAITGGTCAACGGTCAGTAGTGAGGC	7554
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Sbjct	7555	CAACGCGGAGGATGTCTGTGTGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGTCAC	7614
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Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAACTGCCCATCAATGCCTAAGCAACTCGTTGCTACG	7674
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Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
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Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
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Sbjct	7855	GCCCCCACACTGAGCCAAATCCAAGTTTGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7914
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Sbjct	7915	CAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974

Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
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Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
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Sbjct	8394	AGAAGTGC GGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAAC TAGCTGTGGTAACA	8453
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Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	8513
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Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8573
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Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8633
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Sbjct	8634	ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
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Sbjct	8694	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTACCCGTGACCCTACAACCCCC	8753
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Sbjct	8934	ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
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Sbjct	9054	TTGGGGTACC GCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC	9113

Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
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Sbjct	9174	CAAAGCTCAAAC	9185

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Score = 1.482e+04 bits (8027), Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

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Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAACACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAACCCCCCTCCCGGGAGAGCCATA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGCGGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGCGGGTCAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATAACCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATAACCGCTCGTCGGCGCCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGTCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900

Query	923	GCGCAATTCTCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACGTTCACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAAC	1282
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Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAAGTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAAGTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAGTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAAGTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCG	1522
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Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAATGCAATGATAGCCTCAA	1620
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Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
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Sbjct	1801	CGGTATTGTGCCCGCAAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGCTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGTTGTACCTG	2002
Sbjct	1921	GGACGCTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
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Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
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Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTTCGACTACCCGTATAG	2182
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Sbjct	2161	GCTTTGGCATTATCCTTGCTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTGAGACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTGGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCCTGTTCTTCAACAACCTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGACGGGGTAGGGTCAAGCATCGCGTCTCGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGACGGGGTAGGGTCAAGCATCGCGTCTCGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTCTGCTCCTG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTGTCCTTCCTCGTGTCTTCTGCTT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTTATCCTTCCTCGTGTCTTCTGCTT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTCCTGCTGGCGTTGCCCTCAGCGGGCATAACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGCGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178

Query	3201	ACCCCTCTTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATAACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATAACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTGTTCGCCCGCAGGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGAGGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGAGGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTACCC	3598
Query	3621	AAGGGTCCTGTGCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTGCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGC GGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACGTGCTT	4318

Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACGTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCAACCAGACAGTCGATTTAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTGAC	4858
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCC GCC	4940
Sbjct	4859	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCC GCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTGCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	5219	GAAATCACCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	5278
Query	5301	GAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCTCTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457

Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAAGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTACCAGCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCAACAGCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCTTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596

Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	685
Sbjct	6776	GAATACCCGGTAGGGTGCGAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCAACGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCAACGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGcccccccGACTCCGACGTTGAGTCCTATTCTTCCATGcccccccTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCCAGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGAICTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCGGAICTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAACTTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734

Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTACAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCAGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCTGTGGTAACA	8475
Sbjct	8394	AGAAGTGC GGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	ACCAACCAGAATACGACTTGAGGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCACAACCAGAATACGACTTGAGGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCC	8775
Sbjct	8694	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTACCCGTGACCCTACAACCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873

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Query 8896 TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACGGAGCCTGCT 8955
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Sbjct 8874 TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT 8933

Query 8956 ACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT 9015
      |||||
Sbjct 8934 ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT 8993

Query 9016 TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC 9075
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Sbjct 8994 TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC 9053

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      |||||
Sbjct 9054 TTGGGGTACC GCCCTTGCGAGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC 9113

Query 9136 TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9195
      ||
Sbjct 9114 TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9173

Query 9196 CAAAGCTCAAAC 9207
      |||||
Sbjct 9174 CAAAGCTCAAAC 9185
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>**gb|AR118723.1|AR118723** Sequence 123 from patent US 6150087
Length=9185

Score = 1.481e+04 bits (8021), Expect = 0.0
Identities = 8804/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Minus

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Query 23 CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 82
      |||||
Sbjct 9185 CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 9126

Query 83 CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAAGAGAGAGAGCCATA 142
      |||||
Sbjct 9125 CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA 9066

Query 143 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA 202
      |||||
Sbjct 9065 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA 9006

Query 203 TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 262
      ||
Sbjct 9005 TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 8946

Query 263 GTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG 322
      |||||
Sbjct 8945 GTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG 8886

Query 323 GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA 382
      |||||
Sbjct 8885 GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA 8826

Query 383 CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT 442
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Sbjct 8825 CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT 8766

Query 443 TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 502
      |||||
Sbjct 8765 TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA 8706

Query 503 GCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCCAAGGCACGTGCGCCCCGAGGGCAG 562
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Sbjct 8705 GCGGTGCGAACCTCGAGGTAGACGTACGCTATCCCCAAGGCTCGTTCGCCCCGAGGGCAG 8646

Query 563 GACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC 622
      |||||
Sbjct 8645 GACCTGGGCTCAGCCCGGGTACCCTTGCCCCCTCTATGGCAATGAGGGTTCGCGGGTGGGC 8586

Query 623 GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG 682
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Sbjct 8585 GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG 8526
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Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTTACGTGCGGCTTCGCCGACCTCAT	742
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Query	743	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	8465	GGGGTACATACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	8406
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	8405	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	8346
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	8345	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTGACTGTGCCCGCTTCAGCCTACCAAGT	8286
Query	923	GCGCAATTCTTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	8285	GCGCAACTCCACGGGGCTTTACCACTGACCAATGATTGCCCTAACTCGAGTATTGTGTA	8226
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	8225	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGCAA	8166
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCGCGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	8165	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCC	8106
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	8105	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	8046
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	8045	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACGTTCACCTTCTC	7986
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAAC	1282
Sbjct	7985	TCCCAGGCGCCACTGGACGACGCAAGGTGCAATTGCTCTATCTATCCCGCCATATAAC	7926
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	7925	GGGTCACCGCATGGCATGGGATATGATGATGAACGGTCCCCTACGACGGCGTTGGTAAT	7866
Query	1343	AGCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	7865	GGCTCAGCTGCTCCGGATCCCAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	7806
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGT	1462
Sbjct	7805	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGT	7746
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCCG	1522
Sbjct	7745	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCCA	7686
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACCTGAT	1582
Sbjct	7685	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	7626
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	7625	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATTGCAATGATAGCCTCAA	7566
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Sbjct	7565	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	7506
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCATTGTTGCCAGGGCTGGGGTCTATCAGTTA	1762
Sbjct	7505	GAGGCTAGCCAGCTGCCGACCCCTTACCATTGTTGACCAGGGCTGGGGCCCTATCAGTTA	7446
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	7445	TGCCAACGGAAGCGGCCCCGACCAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTG	7386

Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	7385	CGGTATTGTGCCCGCAAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	7326
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	7325	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCCACCTACAGCTGGGGTGAAAATGATAC	7266
Query	1943	GGATGTCTTCGTCCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	7265	GGACGTCTTCGTCCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	7206
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	7205	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	7146
Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	7145	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	7086
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	7085	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCAGGTGCCTGGTCGACTACCCGTATAG	7026
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	7025	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	6966
Query	2243	AGGGGTGAGACAGGCTGGAAGCGGCCGTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	6965	AGGGGTGGAACACAGGCTGGAAGCTGCCGTGCAACTGGACGCGGGGCGAACGTTGCGATCT	6906
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCCTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	6905	GGAAGACAGGGACAGGTCCGAGCTCACCCTGTTACTGCTGACCACTACACAGTGGCAGGT	6846
Query	2363	CCTTCCGTGTTCTTTACGACCCCTGCCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	6845	CCTCCCCTGTTCTTACAAACCTTACCAGCCTTGTCACCGGCCTCATCCACCTCCACCA	6786
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTCTGGGCCAT	2482
Sbjct	6785	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCTCTGGGCCAT	6726
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGCGCGCGCTCTGCTCCTG	2542
Sbjct	6725	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGCGCGCGCTCTGCTCCTG	6666
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	6665	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	6606
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTCTTCTGCTT	2662
Sbjct	6605	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTCTTCTGCTT	6546
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Sbjct	6545	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	6486
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Sbjct	6485	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	6426
Query	2783	GGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	6425	GGCCGCGTCGTGTGGCGGTGTTGTTCTGCTGCGGTTGATGGCGCTGACTCTGTCACCATA	6366
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
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Sbjct	6245	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	6187
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTTCGTGC	3081
Sbjct	6186	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	6127
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAG-CCGGAGGTCATTAC	3140
Sbjct	6126	GCGTCCAAGGCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGAT-GATCGGAGGCCATTAC	6068
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	6067	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	6008
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	6007	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCA	5948
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	5947	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	5888
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	5887	GGTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	5828
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	5827	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	5768
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	5767	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	5708
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Sbjct	5707	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	5648
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Sbjct	5647	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	5588
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	5587	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	5528
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	5527	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	5468
Query	3741	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGCGGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	5467	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGCGGGGTGATAGCAGGGGCAGCCTGCTG	5408
Query	3801	TCGCCCCGCCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	5407	TCGCCCCGCCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	5348
Query	3861	GGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	5347	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	5288
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3980
Sbjct	5287	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	5228
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	5227	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	5168
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	5167	AGCGGCAAAAGCACCAAGGTCCCGGTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	5108

Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	5107	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	5048
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	5047	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4988
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4987	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGGTTATGACATAATA	4928
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4340
Sbjct	4927	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACCTGTCCTT	4868
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4867	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4808
Query	4401	TCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4807	TCCGTCACCTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4748
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4747	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4688
Query	4521	TGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4687	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4628
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4627	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTTCATCCCGACCAGCGGCGATGTTGTC	4568
Query	4641	GTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4567	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4508
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4507	TGCAATACGTGTGTCAACCCAGACAGTCGATTTTCAGCCTTGACCCTACCTTCACCATTGAG	4448
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4447	ACAATCACGCTCCCCCAGGATGCTGTCTCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4388
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTTCGAC	4880
Sbjct	4387	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTTCGAC	4328
Query	4881	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCCCGCC	4940
Sbjct	4327	TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTACGCCCCGCC	4268
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4267	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4208
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTCTA	5060
Sbjct	4207	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTA	4148
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	4147	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	4088
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATCCGC	5180
Sbjct	4087	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTGTTGATTCCGC	4028
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	5240
Sbjct	4027	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAAT	3968

Query	5241	GAAGTCACCCTGACGCACCCAATACCAAATACATCATGACATGCATGTCGGCCGACCTG	5300
Sbjct	3967	GAAATCACCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTG	3908
Query	5301	GAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	3907	GAGGTCGTACAGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTAT	3848
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	3847	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	3788
Query	5421	ATTATACCTGACAGGGAGTTTCTCTACCAG-GAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	3787	ATCATACCTGACAGGGAAAGTCTCTACC-GAGAGTTCGATGAGATGGAAGAGTGCTCTCA	3729
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	3728	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	3669
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	3668	CGGCCTCCTGCAGACCGCGTCCCGTCAAGCAGAGTTATCGCCCTGCTGTCCAGACCAA	3609
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACA	5659
Sbjct	3608	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAATTTTCATCAGTGGGATACA	3549
Query	5660	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	3548	ATACTTGGCGGGCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	3489
Query	5720	TACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	3488	TACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	3429
Query	5780	gggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	3428	GGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	3369
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	3368	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	3309
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	3308	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	3249
Query	5960	CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	3248	CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGAGCCCTCGT	3189
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	3188	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	3129
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Sbjct	3068	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	3009
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Sbjct	3008	AACCCAGCTCCTGAGGCGACTGCACCAAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTC	2949
Query	6260	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	2948	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	2889
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	2888	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCCTGCCAGCG	2829

Query	6380	CGGGTATAGGGGGGCTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	2828	CGGGTATAAGGGGGGCTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	2770
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	2769	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	2710
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTACACCACGGGGCCCCCTGTACTCCCC	6558
Sbjct	2709	GGAACATGTGGAGTGGGACCTTCCCCATTAAATGCCTACACCACGGGGCCCCCTGTACCCCCC	2650
Query	6559	TTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	2649	TTCTGCGCCGAACATACACGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	2590
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	2589	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	2531
Query	6678	CCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	2530	CCGTGCCAGGTCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	2471
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	6797
Sbjct	2470	TTTGCGCCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCAC	2411
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCAGCCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	2410	GAATACCCGGTAGGGTCGCAATTACCTTGCAGCCCCGAACCGGACGTGGCCGTGTTGACG	2351
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
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Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
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Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	2231	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	2172
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Sbjct	2171	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	2112
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	2111	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	2052
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCGTCTGGGCGCGGCCGGA	7216
Sbjct	2051	AGAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCGTTTGGGCGCGGCCGGA	1992
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	1991	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	1932
Query	7277	TGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	1931	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	1872
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Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	1811	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	1752
Query	7457	CCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCCCCGGA	7516
Sbjct	1751	CCCTTCTGGCTGCCCCCCCCGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCCCGGA	1692

Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	1691	GGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	1632
Query	7577	CGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	1631	CAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	1572
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGTCTACG	7696
Sbjct	1571	CCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACCTAAGCAACTCGTTGTCTACG	1512
Query	7697	CCATCACAATCTGGTGTATTCCACCACCTTACGCGAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	1511	TCACCACAATTTGGTGTATTCCACCACCTACGCGAGTGCTTGCCAAAGGCAGAAGAAAGT	1452
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	1451	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTAA	1392
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	1391	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	1332
Query	7877	GCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGC	7936
Sbjct	1331	GCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACGTCCGTTGCCATGC	1272
Query	7937	CAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAGTGTAAC	7996
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Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	1211	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	1152
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	1151	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCGCCGATCTGGGCGTGCGCGTGTGCGAAAA	1092
Query	8117	GATGGCCCTGTACGACGTGGTTAGC-AAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
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Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	912	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	853
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
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Query	8416	AAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAGTAGCTGTGGTAACA	8475
Sbjct	792	AGAACTGC GGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAAGTAGCTGTGGTAACA	733
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	732	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	673
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	672	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	613
Query	8596	ACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8655
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Query 8716      TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC 8775
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Sbjct 492      TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCTGACCCTACAACCCCCC 433

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Query 8836      TAATCATGTTTGGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG 8895
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Sbjct 312      TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT 253

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Sbjct 252      ACTCCATAGAACCACCTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT 193

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Sbjct 132      TTGGGGTACC GCCCTTGCGAGCTTGGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTC 73

Query 9136      TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA 9195
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>**gb|AR118722.1|AR118722** Sequence 122 from patent US 6150087
Length=9185

Score = 1.481e+04 bits (8021), Expect = 0.0
Identities = 8804/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus

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Sbjct 1      CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 60

Query 83      CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAacccccTCCCGGGAGAGCCATA 142
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Sbjct 61      CCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAGCCATA 120

Query 143     GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA 202
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Sbjct 121     GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA 180

Query 203     TAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 262
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Sbjct 181     TCAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT 240

Query 263     GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG 322
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Sbjct 241     GTTGGGTGCGGAAAGGCCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG 300

Query 323     GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA 382
                |||
Sbjct 301     GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAAAACCAAACGTAA 360

Query 383     CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT 442
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Sbjct 361     CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTGAGATCGTTGGTGGAGT 420
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Query	443	TTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
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Sbjct	481	GCGGTTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCAGGTACCCCTTGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCAGGTACCCCTTGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
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Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
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Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCCTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACATATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
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Query	923	GCGCAATTCTTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTTCGCGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGATGGCAAACCTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACGTTCACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAAC	1282
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Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGT	1462
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Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTCCCGGCCA	1500
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Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCAGGGCTGGGGTCCTATCAGTTA	1762
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Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
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Query	1943	GGATGTCTTCGTCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTTCATCGGAGGGGT	2062
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Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
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Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
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Sbjct	2221	AGGGGTGGAACACAGGCTGGAAGCTGCCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
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Sbjct	2341	CCTCCCGTGTTCCTTACAACCCCTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2400
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Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGCTCCTG	2542
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Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTT	2662
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Sbjct	2761	GGCCGCGTCGTGTGGCGGTTGTTCTCTGTCGGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
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Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCAGCGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAATACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCCTTCTCCGGTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGAGGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGAGGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
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Sbjct	3719	ACGAGGCACGCCGATGTCAATCCCCTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838

Query	3861	GGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAAGCACCAAGGTCCCGGTGCGATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGGTTATGACATAATA	4258
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Sbjct	4319	GACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
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Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
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Sbjct	4439	CCTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTC	4498
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Sbjct	4499	TGTCATTCAAAGAAGAAGTGCACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
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Sbjct	4679	TGCAATACGTGTGTCAACCCAGACAGTCGATTTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
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Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGCGCCCCCTCCGGCATGTTTCGAC	4858
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Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978

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Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
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Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCGGGAAGCCGGCA	5398
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Sbjct	5399	ATCATACCTGACAGGGAAGTCTTACCAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
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Sbjct	5578	CTGGCAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAACCTTCATCAGTGGGATACA	5637
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Sbjct	5698	TACAGCTGCTGTACCAGCCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
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Sbjct	5758	GGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
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Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCTTGC	5877
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Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
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Sbjct	5938	CCCTCCACGGAGGACCTGGTCAATCTACTGCCGCCATCCTCTCGCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCA	6117

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Sbjct	6238	CGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
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Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTGTGTCTGCCAGCG	6357
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Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCCC	6536
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Sbjct	6597	TAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
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Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
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Length=9599

Score = 1.477e+04 bits (7997), Expect = 0.0
Identities = 9127/9661 (94%), Gaps = 124/9661 (1%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA 120
      |||
Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGAC 120

Query 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
      |||
Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
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Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTG	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTG	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGT	300
Sbjct	241	GCGAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGT	300
Query	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAG	360
Sbjct	301	GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAG	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCA	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGCCGCCACAGGACGTCA	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTGCGCGCAGGGGCCCTAG	480
Sbjct	421	GTGGTCAGATCGTTGGTGGAGTTTACCTGTTGCCGCGCAGGGGCCCC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGT	540
Sbjct	481	GCGCGACTAGGAAGGCTTCCGAGCGGTGCGAACCTCGTGGAAGGCGAC	540
Query	541	AGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACC	600
Sbjct	541	AGGCTCGCCGACCCGAGGGCAGGGCCTGGGCTCAGCCCGGGTACC	600
Query	601	GCAATGAGGG-TTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGG	659
Sbjct	601	GCAATGAGGGCCTG-GGGTGGGCAGGATGGCTCCTGTCAACCCGCGG	659
Query	660	TGGGGCCCCACAGACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTC	719
Sbjct	660	TGGGGCCCCACGACCCCCGGCGTAGGTGCGTAACTTGGGTAAGGTC	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGC	779
Sbjct	720	ACATGCGGCTTCGCCGATCTCATGGGGTACATTCCGCTCGTCGGCGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGT	839
Sbjct	780	GCTGCCAGGGCCTTGGCACACGGTGTCCGGGTTCTGGAGGACGGCGT	839
Query	840	GGGAACCTT-CCTGGTTGCTCTTTCTCTATCTTCCTTCTG-GGCCCT	897
Sbjct	840	GGGAA-CTTGCCCGGTTGCTCTTTCTCTATCTTCC-TCTTGGCTCTG	897
Query	898	CTGTGCCC-GCTTCAGCCTACCAAGTGCGCAA-TTCCTCGGGGCTTTA	955
Sbjct	898	CCAT-CCCAGCTTCCGCTTATGAAGTGCGCAACGT-GTCCGGGATATA	955
Query	956	TGATTGC-CCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATC	1014
Sbjct	956	CGACTGCTCC-AACTCAAGCATTGTGTATGAGGACGCGGACGTGATCA	1014
Query	1015	GGTGTGT-CCCTTGCGTTC-GCGAGGGTAAC-GCCTCGAGGTGTTGGG	1071
Sbjct	1015	GGTGCGTGCCC-TGTGTTTCAG-GAGGGTAACAG-CTCCCGTTGCTGG	1071
Query	1072	CCACGGTGGCCACCAGGGACGGCAAAC-TCCCCACAACG-CAGCTTCG	1129
Sbjct	1072	CCACGCTCGCGGCCA-GGAATGCCAGCGTCCCACTACGACA-ATACGAC	1129
Query	1130	TC-TGCTTGTGCGGAGC-GCCACCCTCTGCTCGGCCCTCTACGTGGGG	1187
Sbjct	1130	-CTTGCTCGTTGGGA-CGGCTGCTTTCTGCTCCGCTATGTACGTGGGG	1187
Query	1188	TCTGTCTTT-CTTGT-TGGTCAACTGTTTACCTTCTCTCC-CAGGCGC	1242
Sbjct	1188	TCTAT-TTTCCTCGTCT-CCCAGCTGTTTACCTTCTCGCCTC-GCCGG	1242
Query	1243	CGCAAGACTGCAATTGTTCTATCTATCCCGCCATATAACGGGTCATC	1302
Sbjct	1243	TGCAGGACTGCAACTGCTCAATCTATCCCGCCATGTATCAGGTCACCG	1302

Query	1303	ATATGATGATGAACCTGGTCCCCTACGGCAGCGTTGGTGGTAG-CTCAGCTGCTCCGGATC	1361
Sbjct	1303	ATATGATGATGAACCTGGTCACCTACAACAGCCCTAGTGGT-GTCGCAGTTGCTCCGGATC	1361
Query	1362	CCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGAGTCTTGGCGGGGCATAGCG	1421
Sbjct	1362	CCACAAGCTGTCTGTGGACATGGTGGCGGGGGCCACTGGGGAGTCTTGGCGGGCCTTGCC	1421
Query	1422	TA-TTTCTCCATGGTGGGGAACCTGGGCGAAGGTCTTGTTAGT-GCTGCTGCTATTTGCCG	1479
Sbjct	1422	TACTAT-TCCATGGTAGGGAACCTGGGCTAAGGTTCTGATTGTGGC-GCTACTCTTTGCCG	1479
Query	1480	GCGTCGACGCGGAAACCCACGTC-ACCGGGGGA-AAT-GCCGGCCGCACCACGGCTGGGC	1536
Sbjct	1480	GCGTTGACGGGGAGACCCAC-ACGA-C-GGGGAGGGTGGCCGGCCACACCACCTCCGGG-	1535
Query	1537	TTGTTGGTCTCC--TT-ACACCAGGCGCCAAGCAGAACATCCAAC-TGATCAACACCAAC	1592
Sbjct	1536	TT-CACGTC-CCTTTTCTCATCTGGGGCGTCTCAGAAAATCCAGCTTG-TGAATACCAAC	1592
Query	1593	GGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCT-TAACACCGGCTG	1651
Sbjct	1593	GGCAGCTGGCACATCAACAGGACTGCCCTAAATTGCAATGACTCCCTCCAA-ACTGGGTT	1651
Query	1652	GTTAGCAGGGCTCTTCTATC-AACACAAATTCAACTCTTCAGGCTGTCTTGAGAGGTTGG	1710
Sbjct	1652	CTTTGCCGCGCTGTTTTA-CGCACACAAGTTCAACTCGTCCGGGTGCCCGGAGCGCATGG	1710
Query	1711	CCAGCTGCCGACGCC-TT-ACCGATTTTGCCAGGGCTGGGGTCCATCAGTTATGCCAA	1768
Sbjct	1711	CCAGCTGCCG-CCCCATTGACTG-GTTCGCCCAGGGGTGGGGCCCCATCACCTATACTAA	1768
Query	1769	-CGGAAGCGGCCTC-GA-CGA-ACGCCCCTACTGCTGGCACTACCTCCAAGACCTTGTG	1824
Sbjct	1769	GCCTAA-CAG-CTCGGATC-AGA-GGCCTTATTGCTGGCATTACGCGCCTCGACCGTGTG	1824
Query	1825	GCATTGTGCCCCAAAG-AGCGTGTGTGGCCCGGTATATTGCTTCACTCCC-AGCCCCGT	1882
Sbjct	1825	GTGTCGTACCCGCGTCGCAG-GTGTGTGGTCCAGTGTATTGTTTCAC-CCCAAGCCCTGT	1882
Query	1883	GGTGGTGGGAACGACCGA-CAGGTCGGGCG-CGCCTACCTACAGCTGGGGTGCA-AATGA	1939
Sbjct	1883	TGTGGTGGGGACCACCGATC-GTTCGGGTGTC-CCTACGTATAGCTGGGG-GGAGAATGA	1939
Query	1940	TACGGATGT-CTTCGTCCTTAACAACAC-CAGGCCACCGCTGGGCAATTGGTTTCGGTTGT	1997
Sbjct	1940	GACAGACGTGATGC-TCCTCAACAACACGC-GTCCGCCACAAGGCAACTGGTTTCGGCTGT	1997
Query	1998	ACCTGGATGAACTCA--ACTGGATTACCAAAG-TGTGCGGAGCG-CCCCCTTGTTGCAT	2053
Sbjct	1998	ACATGGATGAA-T-AGTACTGGGTTC-CTAAGACGTGCGGAG-GTCCCCCGTGTAAACAT	2053
Query	2054	CGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA	2113
Sbjct	2054	CGGGGGGGTCGGTAACCGCACCTTGATCTGCCCCACGGACTGCTTCCGGAAGCACCCCGA	2113
Query	2114	AGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATT-ACACCCAGGTGCATGGTCGACT	2172
Sbjct	2114	GGCTACTTACACAAAATGTGGCTCGGGGCCCTGG-TTGACACCTAGGTGCCTAGTAGACT	2172
Query	2173	ACCCGTATAGGCTTTGGCACTATCCTTGTAC-CATCAATTACACCATATTCAAAGTCAGG	2231
Sbjct	2173	ACCCATACAGGCTTTGGCACTACCCCTGCACTC-TCAATTTTCCATCTTTAAGGTTAGG	2231
Query	2232	ATGTACGTGGGAGGG-GTCGAGCACAGGCTGGAA-GCGGCCGTGCAACTGGACGCGGGGCG	2289
Sbjct	2232	ATGTATGTGGG-GGGCGTGGAGCACAGGCT-CAATGCCCATGCAATTGGACTCGAGGAG	2289
Query	2290	AACGCTGTGATC-TGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACC	2348
Sbjct	2290	AGCGCTGT-AACTTGAGGACAGGGATAGGTCAGAACTCAGCCCGCTGCTGCTGTCTACA	2348
Query	2349	ACACAGTGGCAGGTCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCACCGGCCCTC	2408
Sbjct	2349	ACAGAGTGGCAGATACTGCCCTGTGCTTTTACCACCCTTACCGGCTTTATCCACTGGTTTG	2408

Query	2409	ATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGC-AT	2467
Sbjct	2409	ATCCATCTCCATCAGAACATCGTGGACGTGCAATACCTGTACGGTGTAGGGTC-AGCGTT	2467
Query	2468	CG-CGTCCTGGGCCATTAAGTGGGAGTACGTCGT-TCTCCTGTTCCTTCTGCTTGACAGAC	2525
Sbjct	2468	TGTC-TCCTTTGCAATCAAATGGGAGTACATCCTGT-TGCTTTTCCTTCTCCTGGCAGAC	2525
Query	2526	GCGCGCGTCTGCT-CCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2526	GCGCGCGTGTG-TGCCCTGCTTGTGGATGATGCTGCTGATAGCCCAGGCTGAGGCCGCCTT	2584
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGA-CGCACGGTCTTGTGTCCT	2643
Sbjct	2585	AGAGAACTTGGTGGTCCCTCAATGCGGCGTCCGTGGCC-GGAGCGCATGGTATTCTCTCCT	2643
Query	2644	TCCTCGTGTTCCTTCTGCTTTGCGTGGTATC-TGAAGGGTAGG-TGGGTGCCCGGAGCGGT	2701
Sbjct	2644	TTCTTGTGTTCCTTCTGCGCCGCTGGTA-CATTAAAGGGCAGGCTGGCT-CCTGGGGCGG-	2700
Query	2702	C-TACGCCCTCTACGG-GATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCC-TCAGCG	2758
Sbjct	2701	CGTATGCTTTTTATGGCG-TATGGCCGCTGCTCCTGCTCCTACTGGCGTTACCACCA-CG	2758
Query	2759	GGCATAACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Sbjct	2759	AGCATATGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTT	2818
Query	2819	AATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	AATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGT	2938
Query	2939	CCCGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Query	2999	TGACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTGGAACAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCCTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCAGTACATCAACGGCTTGCCCGTCTCTGCCCCTAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538

Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599		3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659		3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGG	3778
Sbjct	3719		3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTCTTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCAC	3898
Sbjct	3839		3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899		3958
Query	3959	ATCCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959		4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGC	4078
Sbjct	4019		4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4138
Sbjct	4079		4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139		4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199		4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259		4318
Query	4319	CTTGGGCATCGGCACGTCTTGTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319		4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379		4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439		4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAA	4558
Sbjct	4499		4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAT	4618
Sbjct	4559		4618
Query	4619	CCCGACCAGCGGCGATGTTGTGCTGCTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619		4678

Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCA	5458
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCA	5458
Query	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Sbjct	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Query	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTAT	5578
Sbjct	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTAT	5578
Query	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Sbjct	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Query	5639	GAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGC	5698
Sbjct	5639	GAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGC	5698
Query	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAAC	5758
Sbjct	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAAC	5758
Query	5759	CCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGC	5818
Sbjct	5759	CCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGC	5818

Query	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Sbjct	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Query	5879	GGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5938
Sbjct	5879	GGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5938
Query	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCAT	5998
Sbjct	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCAT	5998
Query	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGT	6058
Sbjct	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGT	6058
Query	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Sbjct	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Query	6119	GAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGC	6178
Sbjct	6119	GAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGC	6178
Query	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTC	6238
Sbjct	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCAGCTGCATCAGTGGATAAGCTC	6238
Query	6239	GGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Sbjct	6239	GGAGTGTAACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Query	6299	GGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGAT	6358
Sbjct	6299	GGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGAT	6358
Query	6359	TCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Sbjct	6359	TCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Query	6419	CACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Sbjct	6419	CACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
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Sbjct	6479	CGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACAC	6538
Query	6539	CACGGGCCCCCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTG	6598
Sbjct	6539	CACGGGCCCCCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTG	6598
Query	6599	TGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Sbjct	6599	TGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Query	6659	TACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGA	6718
Sbjct	6659	TACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGA	6718
Query	6719	CGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATC	6778
Sbjct	6719	CGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATC	6778
Query	6779	ATTGAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCCGAACC	6838
Sbjct	6779	ATTGAGAGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCAGAGCCCGAACC	6838
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Sbjct	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGC	6898
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Query	8819	TTCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGAT	8878
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Length=9599

Score = 1.477e+04 bits (7997), Expect = 0.0
Identities = 9127/9661 (94%), Gaps = 124/9661 (1%)
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Sbjct	660	TGGGGCCCCACGACCCCCGGCGTAGGTGCGCTAACTTGGGTAAGGTCATCGATACCCTT	719
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Sbjct	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
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Query	3659	AGACCTTGTGGGCTGGCCCGTCTCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
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Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
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Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGTC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGTC	4138
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Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319	CTTGGGCATCGGCACCTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCT	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
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Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCTCAT	4618
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Query	4619	CCCGACCAGCGGCGATGTTGTCTGTCGTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
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Sbjct	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
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Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
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Query	5159	GATGTGGAAGTGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
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Sbjct	5219	CAGACTGGGCGCTGTTTCAAGTGAAGTACCCTGACGCACCCAATCACCAAATACATCAT	5278
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Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGA	5458
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Sbjct	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
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Sbjct	5759	CCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGC	5818
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Sbjct	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
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Query	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCAT	5998
Sbjct	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCAT	5998
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Sbjct	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGT	6058
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Sbjct	6059	TGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Query	6119	GAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGC	6178
Sbjct	6119	GAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGC	6178
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Sbjct	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTC	6238

Query	6239	GGAGTGTTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
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Query	6299	GGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGAT	6358
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Query	6359	TCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Sbjct	6359	TCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Query	6419	CACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
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Sbjct	6899	CGGGAGAAGGTTGGCGAGAGGGTACCCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCT	6958
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Sbjct	6959	GTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCT	7018
Query	7019	CATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Sbjct	7019	CATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
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Length=8987

Score = 1.443e+04 bits (7813), Expect = 0.0
Identities = 8602/8993 (95%), Gaps = 14/8993 (0%)
Strand=Plus/Plus

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Sbjct	121	GGCCCTAGATTGGGTGTGCGCGCAGAGAAAGACTTCCGAGCGGTGCAACCTCGAGGT	180
Query	522	AGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGG	581
Sbjct	181	AGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGG	240
Query	582	TACCCCTGGCCCCCTCTATGGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCC	641
Sbjct	241	TACCCCTGGCCCCCTCTATGGCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCC	300
Query	642	CGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGT	701
Sbjct	301	CGTGGCTCTCGGCCCTAGCTGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGT	360
Query	702	AAGGTCATCGATAACCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTC	761
Sbjct	361	AAGGTCATCGATAACCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTC	420
Query	762	GGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAC	821
Sbjct	421	GGCGCCCCCTCTTGGAAGCGCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAC	480
Query	822	GGCGTGAACATGCAACAGGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCC	881
Sbjct	481	GGCGTGAACATGCAACAGGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCC	540
Query	882	CTGCTCTCTTGCCCTGACTGTGCCCGCTTCAGCCTACCAAGTGCAGCAATTCCTCGGGGCTT	941
Sbjct	541	CTGCTCTCTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGTGCAGCAACTCCACGGGGCTT	600
Query	942	TACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATC	1001
Sbjct	601	TACCACGTACCAATGATTGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATC	660
Query	1002	CTGCACACTCCGGGGTGTGTCCCTTGCCTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTG	1061
Sbjct	661	CTGCACACTCCGGGGTGCCTCCCTTGCCTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTG	720
Query	1062	GCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACCTCCCCACAACGCAGCTTCGACGT	1121
Sbjct	721	GCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCCCGCGACGCAGCTTCGACGT	780
Query	1122	CATATCGATCTGCTTGTGCGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTG	1181
Sbjct	781	CACATCGATCTGCTTGTGCGGAGCGCCACCCTCTGTTGCGGCCCTCTACGTGGGGGACCTA	840
Query	1182	TGCGGGTCTGTCTTTCTTGTGGTCAACTGTTTACCTTCTCTCCAGGCGCCACTGGACG	1241
Sbjct	841	TGCGGGTCTGTCTTTCTTGTGCGCCAACGTTCACCTTCTCTCCAGGCGCCACTGGACG	900
Query	1242	ACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACGGGTATCGCATGGCATGG	1301
Sbjct	901	ACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAACGGGTACCGCATGGCATGG	960
Query	1302	GATATGATGATGAACCTGGTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATC	1361
Sbjct	961	GATATGATGATGAACCTGGTCCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATC	1020

Query	1362	CCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCG	1421
Sbjct	1021	CCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCG	1080
Query	1422	TATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTGCCGGC	1481
Sbjct	1081	TATTTCTCCATGGTGGGGAAC TGGGCGAAGGTCTGGTAGTGCTGCTGCTATTTGCCGGC	1140
Query	1482	GTCGACGCGGAAACCCACGTACCGGGGGAAATGCCGGCCGACACGCGCTGGGCTTGTT	1541
Sbjct	1141	GTCGACGCGGAAACCCACGTACCGGGGGAAAGTGCCGGCCACACTGTGTCTGGATTGTT	1200
Query	1542	GGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAAC TATCAACACCAACGGCAGTTGG	1601
Sbjct	1201	AGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGG	1260
Query	1602	CACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGG	1661
Sbjct	1261	CACCTCAATAGCACGGCCCTGAAGTCAATGATAGCCTCAACACCGGCTGGTTGGCAGGG	1320
Query	1662	CTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGA	1721
Sbjct	1321	CTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGA	1380
Query	1722	CGCCTTACCGATTTTGCCAGGGCTGGGGTCTATCAGTTATGCCAACGGAAGCGGCCCTC	1781
Sbjct	1381	CCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCC	1440
Query	1782	GACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAG	1841
Sbjct	1441	GACCAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTGCGGTATTGTGCCCGCGAAG	1500
Query	1842	AGCGTGTGTGGCCCGGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1901
Sbjct	1501	AGTGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1560
Query	1902	AGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAAC	1961
Sbjct	1561	AGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAAC	1620
Query	1962	AACACCAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTTC	2021
Sbjct	1621	AATACCAGGCCACCGCTGGGCAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATTTC	1680
Query	2022	ACCAAAGTGTGCGGAGCGCCCCCTTGTGTATCGGAGGGGTGGGCAACAACACCTTGCTC	2081
Sbjct	1681	ACCAAAGTGTGCGGAGCGCCTCCTTGTGTATCGGAGGGGCGGGCAACAACACCTTGAC	1740
Query	2082	TGCCCCACTGATTGCTTCCGCAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGT	2141
Sbjct	1741	TGCCCCACTGATTGCTTCCGCAAGCATCCGACGCCACATACTCTCGGTGCGGCTCCGGT	1800
Query	2142	CCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGT	2201
Sbjct	1801	CCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGT	1860
Query	2202	ACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGGGTGAGCACAGGCTG	2261
Sbjct	1861	ACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGGAGGGGTGGAACACAGGCTG	1920
Query	2262	GAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCC	2321
Sbjct	1921	GAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCC	1980
Query	2322	GAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTACG	2381
Sbjct	1981	GAGCTCAGCCCGTTACTGCTGACCACTACACAGTGGCAGGTCCTCCCGTGTTCCTTACA	2040
Query	2382	ACCCTGCCAGCCTTGCTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAG	2441
Sbjct	2041	ACCCTACCAGCCTTGCTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAG	2100
Query	2442	TACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCATTAAGTGGGAGTACGTCGTT	2501
Sbjct	2101	TACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCATTAAGTGGGAGTACGTCGTT	2160

Query	2502	CTCCTGTTCCCTTCTGCTTGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTC	2561
Sbjct	2161	CTCCTGTTCCCTTCTGCTTGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTC	2220
Query	2562	ATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCC	2621
Sbjct	2221	ATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCC	2280
Query	2622	GGGACGCACGGTCTTGTGTCTTCTCTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGT	2681
Sbjct	2281	GGGACGCACGGTCTTGTATCTTCTCTGTTCTTCTGCTTTGCATGGTATTTGAAGGGT	2340
Query	2682	AGGTGGGTGCCCAGGAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTG	2741
Sbjct	2341	AAGTGGGTGCCCAGGAGCGGTCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTG	2400
Query	2742	CTGGCGTTGCCTCAGCGGGCATAACGACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGC	2801
Sbjct	2401	TTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGT	2460
Query	2802	GTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTGCGCATATTACAAGCGCTATATCAGC	2861
Sbjct	2461	GTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTACCATATTACAAGCGCTATATCAGC	2520
Query	2862	TGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGG	2921
Sbjct	2521	TGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGG	2580
Query	2922	GTTTCAACGTCCCGCGCATGCCGTCATCTTACTCATGTGTG-TAGT	2980
Sbjct	2581	ATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GT	2639
Query	2981	ACACCCGACCCTGGTATTTGACATCACCAAACCTACTCCTGGCCATCTTCGGACCCCTTTG	3040
Sbjct	2640	ACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGGCCGTCCTTCGGACCCCTTTG	2699
Query	3041	GATTCTTCAAGCCAGTTTGTCTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCG	3100
Sbjct	2700	GATTCTTCAAGCCAGTTTGTCTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCG	2759
Query	3101	GATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCA	3159
Sbjct	2760	GTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATT	2818
Query	3160	AGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGG	3219
Sbjct	2819	AGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGG	2878
Query	3220	CGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGG	3279
Sbjct	2879	CGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGG	2938
Query	3280	AGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCT	3339
Sbjct	2939	AGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCAGGTGACATCATCAACGGCT	2998
Query	3340	TGCCCCGTCTCTGCCCCGTAGGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCT	3399
Sbjct	2999	TGCCTGTTTCCGCCCCAGGGGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCT	3058
Query	3400	CCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCC	3459
Sbjct	3059	CCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACAAGGGGCCTCC	3118
Query	3460	TAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCC	3519
Sbjct	3119	TAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCC	3178
Query	3520	AGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGTATGCTGGA	3579
Sbjct	3179	AGATTGTGTCAACTGCTGCCAAACCTTCTGGCAACGTGCATCAATGGGGTGTGCTGGA	3238
Query	3580	CTGTCTACCACGGGGCCGGAACGAGGACCATCGCATACCCAAGGGTCCTGTCATCCAGA	3639
Sbjct	3239	CTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGA	3298

Query	3640	TGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCAT	3699
Sbjct	3299	TGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCAT	3358
Query	3700	TGACACCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCA	3759
Sbjct	3359	TGACACCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCA	3418
Query	3760	TTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTGCCCCGGGCCATTTTCCT	3819
Sbjct	3419	TTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTGTGCCCCGGGCCATTTTCCT	3478
Query	3820	ACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTAT	3879
Sbjct	3479	ACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCGGGGCACGCCGTGGGCATAT	3538
Query	3880	TCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGA	3939
Sbjct	3539	TTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGA	3598
Query	3940	ACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCCTCTCCACCAGCAGTGC	3999
Sbjct	3599	ACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAACTCCTCTCCACCAGTAGTGC	3658
Query	4000	CCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGG	4059
Sbjct	3659	CCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCACAGGCAGCGGCAAAAGCACCAAGG	3718
Query	4060	TCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTG	4119
Sbjct	3719	TCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTG	3778
Query	4120	CAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCATGGGGTTGATCCTAATATCAGGA	4179
Sbjct	3779	CAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGA	3838
Query	4180	CCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCC	4239
Sbjct	3839	CCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCC	3898
Query	4240	TTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACT	4299
Sbjct	3899	TTGCCGACGGCGGGTGCTCGGGGGGCGCTTATGACATAATAATTTGTGACGAGTGCCACT	3958
Query	4300	CCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGG	4359
Sbjct	3959	CCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGG	4018
Query	4360	GGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATC	4419
Sbjct	4019	GGGCGAGACTGGTTGTGCTCGCCACC GCCACCCCTCCGGGCTCCGTCACTGTGCCCCATC	4078
Query	4420	CTAACATCAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTA	4479
Sbjct	4079	CCAACATCAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTA	4138
Query	4480	TCCCCCTCAGAGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGT	4539
Sbjct	4139	TCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTCTGTCAATCAAAGAAGAAGT	4198
Query	4540	GCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCG	4599
Sbjct	4199	GCGACGAATCGCCGCAAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCG	4258
Query	4600	GTCTTGACGTGTCTGTCTATCCCAGCAGCGCGATGTTGTGCTCGTGTGACCGATGCTC	4659
Sbjct	4259	GTCTTGACGTGTCCGTCTATCCCAGCAGCGCGATGTTGTGCTCGTGTGGAACCGATGCC	4318
Query	4660	TCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTC	4719
Sbjct	4319	TCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACTC	4378
Query	4720	AGACAGTCGATTTACGCTTGACCCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGG	4779
Sbjct	4379	AGACAGTCGATTTACGCTTGACCCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGG	4438

Query	4780	ATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATA	4839
Sbjct	4439	ATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCAACA	4498
Query	4840	GATTTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGT	4899
Sbjct	4499	GATTTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGT	4558
Query	4900	GCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTAC	4959
Sbjct	4559	GCTATGACGCGAGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTAC	4618
Query	4960	GAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGG	5019
Sbjct	4619	GAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGG	4678
Query	5020	GCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTG	5079
Sbjct	4679	GCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTCTATCCAGACAAAGCAGAGTG	4738
Query	5080	GGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCC	5139
Sbjct	4739	GGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCC	4798
Query	5140	CTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATG	5199
Sbjct	4799	CTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTGCGCTCAAGCCACCCTCCATG	4858
Query	5200	GGCCAACACCCCTGCTATACAGACTGGGCGTGTTTCAGAATGAAGTCACCCTGACGCACC	5259
Sbjct	4859	GGCCAACACCCCTGCTATACAGACTGGGCGTGTTTCAGAATGAAATCACCCTGACGCACC	4918
Query	5260	CAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCT	5319
Sbjct	4919	CAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCT	4978
Query	5320	GGGTGCTCGTTGGCGGCGTCTGGCTGCTTGGCCGCGTATTGCCTGTCAACAGGCTGCG	5379
Sbjct	4979	GGGTGCTCGTTGGCGGCGTCTGGCTGCTTGGCCGCGTATTGCCTGTCAACAGGCTGCG	5038
Query	5380	TGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGG	5439
Sbjct	5039	TGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATCATACTGACAGGGGAAAG	5098
Query	5440	TTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAG	5498
Sbjct	5099	TCCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAG	5157
Query	5499	CAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCG	5558
Sbjct	5158	CAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCG	5217
Query	5559	TCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTC	5618
Sbjct	5218	TCCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAACTGGCAAAAACCTCGAGACC	5277
Query	5619	TTTTGGGCGAAGCACATGTGGAATTCATCAGTGGGATACAATACTTGGCGGGCCTGTCA	5678
Sbjct	5278	TTCTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACAATACTTGGCGGGCTTGTCA	5337
Query	5679	ACGCTGCCGTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGC	5738
Sbjct	5338	ACGCTGCCGTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGC	5397
Query	5739	CCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAG	5798
Sbjct	5398	CCACTAACCCTAGCCAAACCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAG	5457
Query	5799	CTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATC	5858
Sbjct	5458	CTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATC	5517
Query	5859	GGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTG	5918
Sbjct	5518	GGCAGTGTGGACTGGGGAAGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTG	5577

Query	5919	GCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTG	5978
Sbjct	5578	GCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTG	5637
Query	5979	GTCAATCTGCTGCCC GCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCA	6038
Sbjct	5638	GTCAATCTACTGCCC GCCATCCTCTCGCCCCGAGCCCTCGTAGTCGGCGTGGTCTGTGCA	5697
Query	6039	GCAATACTGCGCCGGCAGCTTGGCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTA	6098
Sbjct	5698	GCAATACTGCGCCGGCAGCTTGGCCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTG	5757
Query	6099	ATAGCCTTCGCCTCCC GGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGAT	6158
Sbjct	5758	ATAGCCTTCGCCTCCC GGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGAT	5817
Query	6159	GCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGA	6218
Sbjct	5818	GCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGA	5877
Query	6219	CTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGAC	6278
Sbjct	5878	CTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGAC	5937
Query	6279	ATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTC	6338
Sbjct	5938	ATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTC	5997
Query	6339	ATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGGGGTCTGG	6398
Sbjct	5998	ATGCCACAGCTGCCTGGGATCCCTTTGTGTCTGCCAGCGCGGGTATAAGGGGGGTCTGG	6057
Query	6399	CGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGT	6457
Sbjct	6058	CGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGT	6116
Query	6458	CAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGAC	6517
Sbjct	6117	CAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGAC	6176
Query	6518	GTTCCCCATTAAACGCCTACACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACATAAA	6577
Sbjct	6177	CTTCCCCATTAAATGCCTACACCACGGGCCCTGTACCCCCCTTCCTGCGCCGAACACAC	6236
Query	6578	GTTGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCAGGTGGGGGACTT	6637
Sbjct	6237	GTTGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTT	6296
Query	6638	CCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGC	6696
Sbjct	6297	CCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGC	6355
Query	6697	CCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGC	6756
Sbjct	6356	CCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGC	6415
Query	6757	CCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTTCGC	6816
Sbjct	6416	CCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAATACCCGGTAGGGTTCGC	6475
Query	6817	AATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCT	6876
Sbjct	6476	AATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCT	6535
Query	6877	CCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATG	6935
Sbjct	6536	CCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCTCTGTG	6594
Query	6936	GCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAC	6995
Sbjct	6595	GCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAAC	6654
Query	6996	CATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGC	7055
Sbjct	6655	CATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGC	6714

Query	7056	GGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCG	7115
Sbjct	6715	GGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCG	6774
Query	7116	CTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCT	7175
Sbjct	6775	CTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCT	6834
Query	7176	CGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTA	7235
Sbjct	6835	CGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGACTATAACCCCCGCTAGTG	6894
Query	7236	GAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCT	7295
Sbjct	6895	GAGACGTGGAAAAAGCCCAGTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCT	6954
Query	7296	CCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACC GAATCA	7355
Sbjct	6955	CCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGACGGTGGTCTCACTGAATCA	7014
Query	7356	ACCCTATCTACTGCCTTGCCGAGCTTGCCACCAAAGTTTTGGCAGCTCCTCAACTTCC	7415
Sbjct	7015	ACCCTATCTACTGCCTTGCCGAGCTGCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCC	7074
Query	7416	GGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	7475
Sbjct	7075	GGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	7134
Query	7476	GACTCCGACGTTGAGTCCTATTCTTCCATG	7535
Sbjct	7135	GACTCCGACGCTGAGTCCTATTCTTCCATG	7194
Query	7536	GATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTG	7595
Sbjct	7195	GATCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTG	7254
Query	7596	TGCTGCTCAATGTCTTATTCTTGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAA	7655
Sbjct	7255	TGCTGCTCAATGTCTTACTCTTGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAA	7314
Query	7656	CAAAAAGTGGCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTAT	7715
Sbjct	7315	CAGAAAGTGGCCATCAATGCACTAAGCAACTCGTTGCTACGTACCACAATTTGGTGTAT	7374
Query	7716	TCCACCACCTTACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAA	7775
Sbjct	7375	TCCACCACCTTACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAA	7434
Query	7776	GTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTG	7835
Sbjct	7435	GTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAAAGCAGCGCGCTCAAAAGTG	7494
Query	7836	AAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGACGCCCCACATTAGCCAAA	7895
Sbjct	7495	AAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGACGCCCCACACTAGCCAAA	7554
Query	7896	TCCAAGTTTGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCAC	7955
Sbjct	7555	TCCAAGTTTGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAAACCCAC	7614
Query	7956	ATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATC	8015
Sbjct	7615	ATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATC	7674
Query	8016	ATGGCCAAGAACGAGGTTTTCTGCGTTTACGCTGAGAAGGGGGGTCTGTAAGCCAGCTCGT	8075
Sbjct	7675	ATGGCTAAGAACGAGGTTTTCTGCGTTTACGCTGAGAAGGGGGGTCTGTAAGCCAGCTCGT	7734
Query	8076	CTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTG	8135
Sbjct	7735	CTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTG	7794
Query	8136	GTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGG	8194
Sbjct	7795	GTTA-CAAAGCTCCCCTTGCCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGG	7853

Query	8195	ACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCCGATGGGGTTCTC	8254
Sbjct	7854	ACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCCAAGAAAACCCAATGGGGTTCTC	7913
Query	8255	GTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGC	8314
Sbjct	7914	GTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGC	7973
Query	8315	AATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGA	8374
Sbjct	7974	AATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACC GA	8033
Query	8375	GAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TGCGGCTACCGCAG	8434
Sbjct	8034	GAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAG	8093
Query	8435	GTGCCGCGCGAGCGGCGTACTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAA	8494
Sbjct	8094	GTGCCGCGCGAGCGGCGTACTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAA	8153
Query	8495	GGCCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGA	8554
Sbjct	8154	GGCCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGA	8213
Query	8555	CGACTTAGTCGTTATCTGTGAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGC	8614
Sbjct	8214	CGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGC	8273
Query	8615	CTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGAGCCCCCAACCAGAATA	8674
Sbjct	8274	CTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGAGCCCCCAACCAGAATA	8333
Query	8675	CGACTTGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGG	8734
Sbjct	8334	CGACTTGAGCTCATAACATCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGCTGG	8393
Query	8735	AAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG GGA	8794
Sbjct	8394	AAAGAGGGTCTACTACCTCACCCTGACCCTACAACCCCCCTCGCGAGAGCTGCGTG GGA	8453
Query	8795	GACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCC AC	8854
Sbjct	8454	GACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCC AC	8513
Query	8855	ACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCA	8914
Sbjct	8514	ACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCTCATAGCCAGGGACCA	8573
Query	8915	GCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACC ACTTGA	8974
Sbjct	8574	GCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCTACTCCATAGAACC ACTTGA	8633
Query	8975	TCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTC	9034
Sbjct	8634	TCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTC	8693
Query	9035	TCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCG	9094
Sbjct	8694	TCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC TTGGGGTACCGCCCTTGCG	8753
Query	9095	AGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGC	9154
Sbjct	8754	AGCTTGAGACACCGGGCCCGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGC	8813
Query	9155	TGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAA ACTCACTCC	9214
Sbjct	8814	TGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAA ACTCACTCC	8873
Query	9215	AATAGCGGCCGCTGGCCGGCTGGACTTGTCGGGTTGGTTACGGCTGGCTACAGCGGGGG	9274
Sbjct	8874	AATAGCGGCCGCTGGCCAGCTGGACTTGTCGGGTTGGTTACGGCTGGCTACAGCGGGGG	8933
Query	9275	AGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCC	9327
Sbjct	8934	AGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGATCTGGTTTTGCC	8986

>**gb|AR118703.1|AR118703** Sequence 88 from patent US 6150087
Length=8316

Score = 1.326e+04 bits (7179), Expect = 0.0
Identities = 7944/8323 (95%), Gaps = 14/8323 (0%)
Strand=Plus/Plus

Query	684	AGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCATG	743
Sbjct	1	AGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCATG	60
Query	744	GGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGGC	803
Sbjct	61	GGGTACATAACCGCTCGTCGGCGCCCCCTCTTGAGGCGCTGCCAGGGCCCTGGCGCATGGC	120
Query	804	GTCCGGGTTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCCTGGTTGCTCTTTC	863
Sbjct	121	GTCCGGGTTTCTGGAAGACGGCGTGAACATGCAACAGGGAACCTTCCTGGTTGCTCTTTC	180
Query	864	TCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCGCTTCAGCCTACCAAGTG	923
Sbjct	181	TCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCGCTTCAGCCTACCAAGTG	240
Query	924	CGCAATTCCTCGGGGCTTTACCATGTACCAATGATTGCCCTAACTCGAGTATTGTGTAC	983
Sbjct	241	CGCAACTCCACGGGGCTTTACCACTGACCAATGATTGCCCTAACTCGAGTATTGTGTAC	300
Query	984	GAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCCTTCGCGAGGGTAAC	1043
Sbjct	301	GAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCCTTCGCGAGGGTAAC	360
Query	1044	GCCTCGAGGTGTTGGGTGGCGGTGACCCCGCGGTGGCCACCAGGGACGGCAAACCTCCCC	1103
Sbjct	361	GCCTCGAGGTGTTGGGTGGCGGTGACCCCTACGGTGGCCACCAGGGATGGCAAACCTCCCC	420
Query	1104	ACAACGCAGCTTCGACGTCAATATCGATCTGCTTGTGCGGAGCGCCACCCTCTGCTCGGCC	1163
Sbjct	421	GCGACGCAGCTTCGACGTCAATATCGATCTGCTTGTGCGGAGCGCCACCCTCTGCTCGGCC	480
Query	1164	CTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTGTTGTTCAACTGTTTACCTTCTCT	1223
Sbjct	481	CTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTGCGGCAACTGTTTACCTTCTCT	540
Query	1224	CCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACG	1283
Sbjct	541	CCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAACG	600
Query	1284	GGTCATCGCATGGCATGGGATATGATGATGAACGGTCCCCTACGGCAGCGTTGGTGGTA	1343
Sbjct	601	GGTCACCGCATGGCATGGGATATGATGATGAACGGTCCCCTACGACGGCGTTGGTAATG	660
Query	1344	GCTCAGCTGCTCCGGATCCCAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGA	1403
Sbjct	661	GCTCAGCTGCTCCGGATCCCAAGCCATCTTGACATGATCGCTGGTGCTCACTGGGGA	720
Query	1404	GTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGTG	1463
Sbjct	721	GTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACGGGCGAAGGTCCTGGTAGTG	780
Query	1464	CTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTACCGGGGGAAATGCCGGCCGC	1523
Sbjct	781	CTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTACCGGGGGAAATGCCGGCCGC	840
Query	1524	ACCACGGCTGGGCTTGTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACCTGATC	1583
Sbjct	841	ACTGTGCTGGATTTGTTAGCCTCCTCGACCAGGCGCCAAGCAGAACGTCCAGCTGATC	900
Query	1584	AACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAAC	1643
Sbjct	901	AACACCAACGGCAGTTGGCACCTCAATAGCACGGCCTTGAATTGCAATGATAGCCTCAAC	960
Query	1644	ACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGAG	1703
Sbjct	961	ACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGAG	1020

Query	1704	AGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCAGGGCTGGGGTCCTATCAGTTAT	1763
Sbjct	1021	AGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTAT	1080
Query	1764	GCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACCCTCCAAGACCTTGT	1823
Sbjct	1081	GCCAACGGAAGCGGCCCCGACCAGCGCCCTACTGCTGGCACTACCCCCAAAACCTTGC	1140
Query	1824	GGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGTG	1883
Sbjct	1141	GGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGTG	1200
Query	1884	GTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGGGTGCAAATGATACG	1943
Sbjct	1201	GTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGGGTGAAAATGATACG	1260
Query	1944	GATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTGG	2003
Sbjct	1261	GACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTGG	1320
Query	2004	ATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTGTATCGGAGGGGTG	2063
Sbjct	1321	ATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTATCGGAGGGGCG	1380
Query	2064	GGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATAC	2123
Sbjct	1381	GGCAACAACACCCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGACGCCACATAC	1440
Query	2124	TCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGG	2183
Sbjct	1441	TCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAGG	1500
Query	2184	CTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGGA	2243
Sbjct	1501	CTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGGA	1560
Query	2244	GGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCTG	2303
Sbjct	1561	GGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCTG	1620
Query	2304	GAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGTC	2363
Sbjct	1621	GAAGACAGGGACAGGTCCGAGCTCACCCTGTTACTGCTGACCACTACACAGTGGCAGGTC	1680
Query	2364	CTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCAG	2423
Sbjct	1681	CTCCCGTGTTCTTCAACCCCTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCAG	1740
Query	2424	AACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCATT	2483
Sbjct	1741	AACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCTGGGCCATT	1800
Query	2484	AAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGCTCCTGC	2543
Sbjct	1801	AAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGACAGACGCGCGCTGCTCCTGC	1860
Query	2544	TTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTC	2603
Sbjct	1861	TTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTT	1920
Query	2604	AATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCGTGTTCTTCTGCTTT	2663
Sbjct	1921	AATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTTT	1980
Query	2664	GCGTGGTATCTGAAGGGTAGGTGGGTGCCGAGCGGTCTACGCCCTCTACGGGATGTGG	2723
Sbjct	1981	GCATGGTATTTGAAGGGTAAGTGGGTGCCGAGCGGTCTACACCTTCTACGGGATGTGG	2040
Query	2724	CCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGTG	2783
Sbjct	2041	CCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGTG	2100
Query	2784	GCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGCGCTGACTCTGTCGCCATAT	2843
Sbjct	2101	GCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATAT	2160

Query	2844	TACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAA	2903
Sbjct	2161	TACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2220
Query	2904	GCGCAACTGCACGTGTGGGTTTCAACGTCCCGCGATGCCGTCATC	2963
Sbjct	2221	GCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGCGCGACGCCGTCATC	2280
Query	2964	TTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACACTACTCCTGGC	3022
Sbjct	2281	TTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGGC	2339
Query	3023	CATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCG	3082
Sbjct	2340	CGTCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGCG	2399
Query	3083	CGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTACG	3141
Sbjct	2400	CGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTACG	2458
Query	3142	TGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCA	3201
Sbjct	2459	TGCAAATGGTCATCATTAAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTCA	2518
Query	3202	CCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGTGGCTGTGGAACCAG	3261
Sbjct	2519	CTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGTGGCTGTAGAGCCAG	2578
Query	3262	TCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCG	3321
Sbjct	2579	TCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCG	2638
Query	3322	GTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGC	3381
Sbjct	2639	GTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGGC	2698
Query	3382	CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCC	3441
Sbjct	2699	CAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCC	2758
Query	3442	AGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACC	3501
Sbjct	2759	AGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAACC	2818
Query	3502	AAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCA	3561
Sbjct	2819	AAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGCA	2878
Query	3562	TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA	3621
Sbjct	2879	TCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCCA	2938
Query	3622	AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTC	3681
Sbjct	2939	AGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTC	2998
Query	3682	CTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA	3741
Sbjct	2999	CGCAAGGTAGCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTTACCTGGTCA	3058
Query	3742	CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTT	3801
Sbjct	3059	CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTGT	3118
Query	3802	CGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCGCG	3861
Sbjct	3119	CGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCGCGCG	3178
Query	3862	GACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG	3921
Sbjct	3179	GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTGG	3238
Query	3922	ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAAC	3981
Sbjct	3239	ACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTACGGATAAC	3298

Query	3982	CCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGCA	4041
Sbjct	3299	CCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGCA	3358
Query	4042	GCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGC	4101
Sbjct	3359	GCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTAC	3418
Query	4102	TCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGG	4161
Sbjct	3419	TCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGGA	3478
Query	4162	TTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACT	4221
Sbjct	3479	TCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACT	3538
Query	4222	CCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAA	4281
Sbjct	3539	CCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGGTTATGACATAATAA	3598
Query	4282	TTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTG	4341
Sbjct	3599	TTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTG	3658
Query	4342	ACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCT	4401
Sbjct	3659	ACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGCT	3718
Query	4402	CCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCC	4461
Sbjct	3719	CCGTCACCTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCC	3778
Query	4462	CCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCT	4521
Sbjct	3779	CTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAGACATCTCATCTTCT	3838
Query	4522	GCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATG	4581
Sbjct	3839	GTCATTCAAAGAAGAAGTGCGACGAATCGCCGCAAAGCTGGTCGCATTGGGCATCAATG	3898
Query	4582	CCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCTATCCCAGCAGCGCGATGTTGTCTG	4641
Sbjct	3899	CCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCTATCCCAGCAGCGCGATGTTGTCTG	3958
Query	4642	TCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCAGCTTCGACTCTGTGATAGACT	4701
Sbjct	3959	TCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCAGCTTCGACTCGGTGATAGACT	4018
Query	4702	GCAACACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCCTACCTTTACCATTGAGA	4761
Sbjct	4019	GCAATACGTGTGTCACTCAGACAGTCGATTTACGCCCTTGACCCTACCTTTACCATTGAGA	4078
Query	4762	CAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGG	4821
Sbjct	4079	CAATCAGCTCCCCAGGATGCTGTCTCCGCAGCTCAACGTCGGGGCAGGACTGGCAGGG	4138
Query	4822	GGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTTCGACT	4881
Sbjct	4139	GGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTTCGACT	4198
Query	4882	CGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCG	4941
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Query	4942	AGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACC	5001
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Query	5002	ATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTAT	5061
Sbjct	4319	ATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGATGCCCACTTTCTAT	4378
Query	5062	CCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGT	5121
Sbjct	4379	CCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGT	4438

Query	5122	GCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTCGATCCGCC	5181
Sbjct	4439	GCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTCGATTCGCC	4498
Query	5182	TTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAATG	5241
Sbjct	4499	TCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAATG	4558
Query	5242	AAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGG	5301
Sbjct	4559	AAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCATGTCGGCCGACCTGG	4618
Query	5302	AGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATT	5361
Sbjct	4619	AGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTTTGGCCGCGTATT	4678
Query	5362	GCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGAAGCCGGCAA	5421
Sbjct	4679	GCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGAAGCCGGCAA	4738
Query	5422	TTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCAG	5480
Sbjct	4739	TCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCAG	4797
Query	5481	CACCTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTC	5540
Sbjct	4798	CACCTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCTC	4857
Query	5541	GGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAAC	5600
Sbjct	4858	GGCCTCCTGCAGACCGCGTCCCCTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAAC	4917
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Sbjct	4918	TGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAATTTTCATCAGTGGGATACAA	4977
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Sbjct	4978	TACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTT	5037
Query	5721	ACAGCTGCCGTACACAGCCCACTAACCACCTGGCCAAACCCTCCTCTTCAACATATTGGG	5780
Sbjct	5038	ACAGCTGCTGTCACCAGCCCACTAACCACCTAGCCAAACCCTCCTCTTCAACATATTGGGG	5097
Query	5781	GGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTACTGCCTTTGTGGGTGCTGGC	5840
Sbjct	5098	GGGTGGGTGGCTGCCAGCTCGCCGCCCGCGGTGCCGCTACTGCCTTTGTGGGCGCTGGC	5157
Query	5841	CTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCA	5900
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Query	5961	CCCTCCACGGAGGACCTGGTCAATCTGCTGCCC GCCATCCTCTCGCCTGGAGCCCTTGTA	6020
Sbjct	5278	CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGTA	5337
Query	6021	GTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG	6080
Sbjct	5338	GTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG	5397
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Sbjct	5398	CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCAGGCAC	5457
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Query	6261	GGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACC	6320
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Query	6381	GGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAGC	6439
Sbjct	5698	GGGTATAAGGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAGC	5756
Query	6440	TGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAG	6499
Sbjct	5757	TGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAG	5816
Query	6500	GAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCCT	6559
Sbjct	5817	GAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCCTGTACCCCCCT	5876
Query	6560	TCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGAT	6619
Sbjct	5877	TCCTGCGCCGAACATACAGTTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGAT	5936
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Sbjct	5937	AAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGCC	5995
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Sbjct	6056	TTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACG	6115
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Sbjct	6116	AATACCCGGTAGGGTTCGAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACGT	6175
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Sbjct	6355	TGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAAAACAAAGTGGTGATT	6414
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Sbjct	6475	GAAATCCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGAC	6534
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Sbjct	6535	TATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCAGCTACGAACCACCTGTGGTCCAT	6594
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Sbjct	6775	CCTTCTGGCTGCCCCCGACTCCGACGCTGAGTCCTATTCTTCCATGCCCCCCTGGAG	6834
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Sbjct	7195	CCCCACACTCAGCCAAATCCAAGTTTGCTATGGGGCAAAAGACGTCCGTTGCCATGCC	7254
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Query	8177	ATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAA	8236
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Sbjct	7554	AACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCGA	7613
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Sbjct	7614	CATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCTGGC	7673
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Sbjct	7674	CATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGA	7733
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>**gb|AR916116.1|** Sequence 9 from patent US 7084266
Length=9611

Sort alignments for this subject se
E value **Score** **Percent identity**
Query start position **Subject sta**

Score = 1.310e+04 bits (7095), Expect = 0.0
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[illegible]

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Query	3425	CATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	CATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
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Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
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Sbjct	4277	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4336
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Sbjct	4337	CATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCAC	4396
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Query	4625	CAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTACGCTTGACCC	4756
Query	4745	TACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGTA	4924
Sbjct	4877	CTCCGGCATGTTTCTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGTA	4936
Query	4925	TGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937	TGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5056
Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTACCTGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225	GGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCAATACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGCTGTTTCAAGTGAAGTCAACCTGACGCACCAATACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGC	5344
Sbjct	5297	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGC	5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTTACCAGGAGTTCGATGAGAT	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656

Query	5645	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCTCCT	5764
Sbjct	5717	TTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCTCCT	5776
Query	5765	CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824
Sbjct	5777	CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5896
Query	5885	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Query	6545	CCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	6737	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6796

Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCAGAGCCGAACCGGACGT	6856
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	6857	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964
Sbjct	6917	AAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7336
Query	7325	GAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7384
Sbjct	7337	GAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCAT	7516
Query	7505	????GAGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT	7564
Sbjct	7517	GCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGG	7636
Query	7625	CGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAA	7696
Query	7685	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7924
Sbjct	7877	TTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7936

Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7996
Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044
Sbjct	7997	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8104
Sbjct	8057	GCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGCAAGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGCAAGCGTG	8236
Query	8225	GAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8296
Query	8285	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8344
Sbjct	8297	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAG	8464
Sbjct	8417	TTCAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAG	8476
Query	8465	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8524
Sbjct	8477	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGACGCGGCGAGCCTTACGAGGCTTACGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597	GGTCCAGGAGGACGCGGCGAGCCTTACGAGGCTTACGAGGCTATGACCAGGTACTCCGC	8656
Query	8645	CCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705	CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8824
Sbjct	8777	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837	GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8896
Query	8885	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8944
Sbjct	8897	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076

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Query 9065 CCTCAGAAAACCTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCGTCCG 9124
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Sbjct 9077 CCTCAGAAAACCTGGGGTCCCGCCCTTGCAGAGCTTGGAGACACCGGGCCCGGAGCGTCCG 9136

Query 9125 CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG 9184
      |||
Sbjct 9137 CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCTATATGTGGCAAGTACCTCTTCAACTG 9196

Query 9185 GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTG 9244
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Sbjct 9197 GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTG 9256

Query 9245 CGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCG 9304
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Sbjct 9257 CGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCG 9316

Query 9305 GCCCCGCTGGTTCGTGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT 9364
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Sbjct 9317 GCCCCGCTGGTTCGTGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT 9376

Query 9365 CCCCACCAGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTG***** 9424
      |||
Sbjct 9377 CCCCACCAGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTTTTTT 9436

Query 9425 ***** 9484
      |||
Sbjct 9437 TTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCTTTCCCTTCTCTTTTTTCTTTT 9496

Query 9485 *****AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT 9544
      |||
Sbjct 9497 TTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT 9556

Query 9545 CCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
      |||
Sbjct 9557 CCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9611
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Score = 1118 bits (605), Expect = 0.0
Identities = 810/906 (89%), Gaps = 26/906 (2%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
      |||
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120
      |||
Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120

Query 121 *****TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
      |||
Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
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Sbjct 181 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240

Query 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

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Sbjct 301 GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACAAATCCTAAAC 360

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Sbjct 361 CTCAAAGAAAAACCAAAGAAACACCAACCGTCGCCCACAAGACGTTAAGTTTCCGGGCG 420

Query 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGGCCCTAGATTGGGTGTGC 480
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Sbjct 421 GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGGCCCAAGTTGGGTGTGC 480

Query 481 GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
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Sbjct 481 GCGCGACAAGGAAGACTTCCGAGCGGTCCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA 540
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Query	2303	GGAAGACAGGGACAG--GTCCGAGCTCAG-C-CCGTTGCTGCTGTCCACCACACAGT-GG	2357
Sbjct	2315	GGAGGACAGAGACAGAAGT-C-AACT--GTCTCCTTTGTTGCACTCCACCACGGAATGGG	2370
Query	2358	-CAGGTCCTT-CCGTGTTCTTTTAC-GACCCGTCCAGCCTTGTCCACCGG-CCTCATCCA	2413
Sbjct	2371	CCA--T-TTTACCTTGCTCTTACTCGGA-CCTGCCCGCCTTGTGCACTGGTCTTC-TCCA	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCAATGTATGGCCTA---TC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCAT--TAAG-TGGGAGTACGTCGTTCTCCTGTTCCCTTCTGCTT-GCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGATGTTAC-TCATATCCCAAGCGGAGCGGCTTT	2584
Sbjct	2539	C-CAGGGTTTGC GCCTGCTTATGGATGCTCAT-CTTGT TGGGCCAGGCCGAAGCAGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGGTCTA	2704
Sbjct	2657	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGGTCTA	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGC	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGC	2836
Query	2825	GCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2884
Sbjct	2837	GCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCCGGGG	2944
Sbjct	2897	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCCGGGG	2956
Query	2945	GGGCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	3004
Sbjct	2957	GGGCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	3016
Query	3005	CACCAAAC TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CACCAAAC TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGC GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGC GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCCTAGGGGCCA	3376
Query	3365	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436

Query	3425	CATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	CATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	TGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3736
Query	3725	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGGTGATAG	3784
Sbjct	3737	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCCTGCGCCGGCGAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	CAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3856
Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCATTTCAGGGCCGCGGTGTGCACCCGTGG	3916
Query	3905	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3976
Query	3965	GGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4024
Sbjct	3977	GGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4036
Query	4025	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGTCCCGGTGCGTACGCAGCCCAGGG	4084
Sbjct	4037	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGTCCCGGTGCGTACGCAGCCCAGGG	4096
Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4216
Query	4205	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4324
Sbjct	4277	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4336
Query	4325	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCAC	4384
Sbjct	4337	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCAC	4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4456
Query	4445	CACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457	CACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4576

Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGAC	4624
Sbjct	4577	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGAC	4636
Query	4625	CAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCC	4756
Query	4745	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937	TGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5056
Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225	GGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGC	5344
Sbjct	5297	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGC	5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645	CATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716

Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCTCCT	5764
Sbjct	5717	TTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCTCCT	5776
Query	5765	CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824
Sbjct	5777	CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5896
Query	5885	CGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCGCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCGCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCTTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Query	6545	CCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCGTGACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	6737	GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6796
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6856

Query	6845	AGCCGTGTTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	6857	AGCCGTGTTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964
Sbjct	6917	AAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6976
Query	6965	TCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7336
Query	7325	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7384
Sbjct	7337	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCGCCCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCAT	7516
Query	7505	GCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7564
Sbjct	7517	GCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGG	7636
Query	7625	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAATACTGCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAATACTGCCATCAACGCACTGAGCAA	7696
Query	7685	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGT	7924
Sbjct	7877	TTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7996

Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044
Sbjct	7997	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8104
Sbjct	8057	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCGTG	8236
Query	8225	GAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8296
Query	8285	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8344
Sbjct	8297	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAG	8464
Sbjct	8417	TTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAG	8476
Query	8465	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8524
Sbjct	8477	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGC	8656
Query	8645	CCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705	CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8824
Sbjct	8777	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837	GCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8896
Query	8885	TTTCTTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8944
Sbjct	8897	TTTCTTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017	CCTCAGCGCATTTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076
Query	9065	CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCG	9124
Sbjct	9077	CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCG	9136

Score = 1062 bits (575), Expect = 0.0
Identities = 800/906 (88%), Gaps = 26/906 (2%)
Strand=Plus/Plus

9/8/2009

Sbjct	541	AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGGAAAACCAGGATACCCCTGGCCCCCTA	596
Query	597	TATGGCAATGAGGGT-TGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCC	655
Sbjct	597	TACGGGAATGAGGGACT-CGGCTGGGCAGGATGGCTCCTGTCCCCCGAGGTTCCCGTCC	655
Query	656	-TAGCT-GGGGCCCCACA-GACCCCCGGCGTAGGTGCGCGAATTTGGGTAAGGTCATCGA	712
Sbjct	656	CT--CTTGGGGCCCCA-ATGACCCCCGGCATAGGTGCGCGAACGTGGGTAAGGTCATCGA	712
Query	713	TACCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATAACC-GCTCGTCGGCGCCCCCTC	771
Sbjct	713	TACCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCGC	771
Query	772	TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC	830
Sbjct	772	TCGGCGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTTGAGGACGGGGTTAAT	830
Query	831	TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTTCTCTATCTTCCTT-CTGGCCCTGCTC	887
Sbjct	831	TTTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-TCTATCTTC-TTGCTGGCCCTGCTG	887
Query	888	TCTTGC	893
Sbjct	888	TCCTGC	893

>emb|AX057094.1| Sequence 9 from Patent WO0075338
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.310e+04 bits (7095), Expect = 0.0
Identities = 7616/7855 (96%), Gaps = 86/7855 (1%)
Strand=Plus/Plus

Query	1791	CCCTACTGCTGGCACTACCCTCCAAGACCTTGTGGCATTGTGC-CCGCAAAGAGC-GTGT	1848
Sbjct	1797	CCCTATTGTCTGGCACTACCCACCAAGGCAGTGTGGCGTGGT-CTCCGCGAAGA-CTGTGT	1854
Query	1849	GTGGCCCGGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTC-G	1907
Sbjct	1855	GTGGCCCAAGTACTGTTTACCCCCAGCCAGTGGTAGTGGGCACGACCGACAGG-CTT	1913
Query	1908	GGCGCGCCTACCTACAGC-TGGGGTGCA-AATGATACGGATGTCTTCGTCCTT-AACAAC	1964
Sbjct	1914	GGAGCGCCCACTTACA-CGTGGGG-GGAGAATGAGACAGATGTCTTCCT-ATTGAACAGC	1970
Query	1965	AC-CAGGCCACCGCT-GGG-CAATTGGTTTCGGTTGTACCTGGATGAACTCAACTGGATT	2021
Sbjct	1971	ACTC-GACCACCGCTGGGGTC-A-TGGTTCGGCTGCACGTGGATGAACTCTTCTGGCTAC	2027
Query	2022	ACCAA-AGTGTGCGGAGCGCC-CCCTTG-TGTCATCGGAGGGGTG--GGCAA---CA--A	2071
Sbjct	2028	ACCAAGACT-TGCGGCGCACACCC-TGCCGT-A-C-TAGAGCTGACTTCAACGCCAGCA	2082
Query	2072	C--ACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA-AGCCACATACTCTC-	2127
Sbjct	2083	CGGACC-TGTTGTGCCCCACGGACTGTTTTAGGAAGCATCCTGATA-CCACTTAC-CTCA	2139
Query	2128	GGTGC GGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGGCTTT	2187
Sbjct	2140	AATGCGGCTCTGGGCCCTGGCTCACGCCAAGGTGCCTGATCGACTACCCCTACAGGCTCT	2199
Query	2188	GGCACTATCCTTGTACCA-TCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGG	2246
Sbjct	2200	GGCATTACCCCTGCA-CAGTTAACTATAACCATCTTCAAAATAAGGATGTATGTGGGAGGG	2258
Query	2247	GTCGAGCACAGGCTGGA-AGCGGCCTGCAACTGGACGCG-GGGCGAACGCTGTG-ATC-T	2302
Sbjct	2259	GTTGAGCACAGGCT-CACGGCTGCATGCAATTTCACTCGTGGG-GATCG-T-TGCAACTT	2314
Query	2303	GGAAGACAGGGACAG--GTCCGAGCTCAG-C-CCGTTGCTGCTGTCCACCACACAGT-GG	2357

Sbjct	2315	GGAGGACAGAGACAGAAAGT-C-AACT--GTCTCCTTTGTTGCACTCCACCACGGAATGGG	2370
Query	2358	-CAGGTCCTT-CCGTGTTCTTTTCAC-GACCCTGCCAGCCTTGTCCACCGG-CCTCATCCA	2413
Sbjct	2371	CCA--T-TTTACCTTGCTCTTACTCGGA-CCTGCCCGCCTTGTCTGACTGGTCTTC-TCCA	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCATGTATGGCCTA---TC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCAT--TAAG-TGGGAGTACGTCGTTCTCCTGTTCTTCTGCTT-GCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGATGTTAC-TCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2539	C-CAGGGTTTGCGCCTGCTTATGGATGCTCAT-CTTGTTGGGCCAGGCCGAAGCAGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTA	2704
Sbjct	2657	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTA	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGC	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGC	2836
Query	2825	GCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2884
Sbjct	2837	GCTGACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCCGGG	2944
Sbjct	2897	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCCGGGG	2956
Query	2945	GGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	3004
Sbjct	2957	GGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	3016
Query	3005	CACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CACCAAACCTACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3376
Query	3365	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436
Query	3425	CATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484

Sbjct	3437	CATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	TGGCCGGGACAAAAACCAAGTGGAGGGTGGAGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCCTGTTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3736
Query	3725	GGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCCTGCGCCGGCGAGGTGATAG	3784
Sbjct	3737	GGACCTTTACCTGGTCACGAGGCACGCCGATGTTCATTCCCCTGCGCCGGCGAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	CAGGGGTAGCCTGCTTTGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCC	3856
Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTGAGGGCCGCGGTGTGCACCCGTGG	3916
Query	3905	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3976
Query	3965	GGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4024
Sbjct	3977	GGTGTTACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4036
Query	4025	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGG	4084
Sbjct	4037	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGTGCGTACGCAGCCAGGG	4096
Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4216
Query	4205	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4324
Sbjct	4277	TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4336
Query	4325	CATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCAC	4384
Sbjct	4337	CATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCAC	4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4456
Query	4445	CACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457	CACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4576
Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGAC	4624

Sbjct	4577	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGAC	4636
Query	4625	CAGCGGCGATGTTGTCTGTCGTGTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTCTGTCGTGTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCC	4756
Query	4745	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGA	4924
Sbjct	4877	CTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGA	4936
Query	4925	TGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937	TGAGCTCACGCCC GCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5056
Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225	GGGCGCTGTTTCAGAAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGCTGTTTCAGAAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTCTGGC	5344
Sbjct	5297	CATGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTCTGGC	5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAACTCAGAGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAACTCAGAGTCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCT	5764

Sbjct	5717	TTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCCTAACCCTGGCCAAACCCTCCT	5776
Query	5765	CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824
Sbjct	5777	CTTCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5896
Query	5885	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Query	6545	CCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	6737	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6796
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACCGGACGT	6856
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904

Sbjct	6857	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964
Sbjct	6917	AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCTCCTGTGCCTCCGCCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCTCCTGTGCCTCCGCCTCG	7336
Query	7325	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7384
Sbjct	7337	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCAT	7516
Query	7505	GCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7564
Sbjct	7517	GCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGACAGG	7636
Query	7625	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACCTGCCCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACCTGCCCCATCAACGCACTGAGCAA	7696
Query	7685	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGCAAAGACGT	7924
Sbjct	7877	TTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGCAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7996
Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044

Sbjct	7997	AGACAGTGTAAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8104
Sbjct	8057	GCCTGAGAAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCGTGCAAGCGTG	8236
Query	8225	GAAGTCCAAGAAGACCCCAGTGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAAGACCCCAGTGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8296
Query	8285	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8344
Sbjct	8297	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAG	8464
Sbjct	8417	TTCAAGGGGGGAAAACCTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAG	8476
Query	8465	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8524
Sbjct	8477	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8644
Sbjct	8597	GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8656
Query	8645	AAAAAAAAAGGGGACAAAAACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCCCCGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705	CAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8824
Sbjct	8777	TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837	GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8896
Query	8885	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8944
Sbjct	8897	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076
Query	9065	CCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCGTCCG	9124
Sbjct	9077	CCTCAGAAAACCTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCGTCCG	9136
Query	9125	CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG	9184

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Sbjct  9137  CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCTATATGTGGCAAGTACCTCTTCAACTG  9196
Query   9185  GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTG  9244
        |||
Sbjct  9197  GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTG  9256
Query   9245  CGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCCG  9304
        |||
Sbjct  9257  CGGTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCCG  9316
Query   9305  GCCCCGCTGGTTCGTGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT  9364
        |||
Sbjct  9317  GCCCCGCTGGTTCGTGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT  9376
Query   9365  CCCCCAACCAGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTTTT  9424
        |||
Sbjct  9377  CCCCCAACCAGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTTTTT  9436
Query   9425  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  9484
        |||
Sbjct  9437  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  9496
Query   9485  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  9544
        |||
Sbjct  9497  TTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT  9556
Query   9545  CCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT  9599
        |||
Sbjct  9557  CCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT  9611
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Score = 1118 bits (605), Expect = 0.0
Identities = 810/906 (89%), Gaps = 26/906 (2%)
Strand=Plus/Plus

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Query    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG  60
Sbjct    1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG  60
Query   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC  120
Sbjct   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC  120
Query   121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Sbjct   121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG  180
Query   181  GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC  240
Sbjct   181  GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC  240
Query   241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG  300
Sbjct   241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG  300
Query   301  GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC  360
Sbjct   301  GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAAATCCTAAAC  360
Query   361  CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG  420
Sbjct   361  CTCAAAGAAAAACCAAAGAAACACCAACCGTCGCCACAAGACGTTAAGTTTCCGGGCG  420
Query   421  GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC  480
Sbjct   421  GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGCCCCAGGTTGGGTGTGC  480
Query   481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA  540
Sbjct   481  GCGCGACAAGGAAGACTTCCGAGCGGTCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA  540
Query   541  AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGTACCCTTGGCCCCCTC  596
Sbjct   541  AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGGAACCAGGATACCCCTGGCCCCCTA  596
Query   597  TATGGCAATGAGGGT-TGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCC  655
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Sbjct	2371	CCA--T-TTTACCTTGCTCTTACTCGGA-CTGCCCCGCTTGTCGACTGGTCTTC-TCCA	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCAATGTATGGCCTA---TC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCAT--TAAG-TGGGAGTACGTCGTTCTCTGTTCTTCTGCTT-GCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGATGTTAC-TCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2539	C-CAGGGTTTGCCTGCTTATGGATGCTCAT-CTTGTGGGCCAGGCCGAAGCAGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGGTCTA	2704
Sbjct	2657	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGGTCTA	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGC	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGTTAATGGC	2836
Query	2825	GCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2884
Sbjct	2837	GCTGACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC cccccc CAACGTCC gggg	2944
Sbjct	2897	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTC cccccc CAACGTCCGGGG	2956
Query	2945	gggg CGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	3004
Sbjct	2957	GGGGCGCGATGCCGTCACTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	3016
Query	3005	CACCAAAC TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CACCAAAC TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCATCTCACCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGCCTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3376
Query	3365	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436
Query	3425	CATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	CATCACGGCGTACGCCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3544

Sbjct	3497		TGGCCGGGACAAAAACCAAGTGGAGGGT	3556
Query	3545		CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557		CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605		GACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617		GACCATCGCATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665		TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677		TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3736
Query	3725		GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3784
Sbjct	3737		GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3796
Query	3785		CAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797		CAGGGGTAGCCTGCTTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCC	3856
Query	3845		GCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTGAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857		GCTGTTGTGCCCCGCGGGACACGCCGTGGGCTATTGAGGGCCGCGGTGTGCACCCGTGG	3916
Query	3905		AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917		AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3976
Query	3965		GGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4024
Sbjct	3977		GGTGTTCACGGACAACCTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCT	4036
Query	4025		GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGTCCCGGTGCGTACGCAGCCCAGGG	4084
Sbjct	4037		GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGTCCCGGTGCGTACGCAGCCCAGGG	4096
Query	4085		CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097		CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4156
Query	4145		GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCACTGG	4204
Sbjct	4157		GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAAATTACCACTGG	4216
Query	4205		CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217		CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4276
Query	4265		TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4324
Sbjct	4277		TGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGG	4336
Query	4325		CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCAC	4384
Sbjct	4337		CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCAC	4396
Query	4385		TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397		TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4456
Query	4445		CACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457		CACCACCGGAGAGATCCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4516
Query	4505		AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517		AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGT	4576
Query	4565		CGCATTTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGAC	4624
Sbjct	4577		CGCATTTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGAC	4636
Query	4625		CAGCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684

Sbjct	4637		CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685		CGACTCTGTGATAGACTGCAACACGTGTGTCACCTCAGACAGTCGATTTTACGCCTTGACCC	4744
Sbjct	4697		CGACTCTGTGATAGACTGCAACACGTGTGTCACCTCAGACAGTCGATTTTACGCCTTGACCC	4756
Query	4745		TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757		TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805		GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817		GGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865		CTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGA	4924
Sbjct	4877		CTCCGGCATGTTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGA	4936
Query	4925		TGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937		TGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985		TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5044
Sbjct	4997		TCCCGTGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATAT	5056
Query	5045		AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGGTAGC	5104
Sbjct	5057		AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGGTAGC	5116
Query	5105		GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117		GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTG	5176
Query	5165		GAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177		GAAGTGTTTGATCCGCCTTAAACCCACCCCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225		GGGCGCTGTTTCAGAATGAAGTCACCCCTGACGCACCCAATCACCAAATACATCATGACATG	5284
Sbjct	5237		GGGCGCTGTTTCAGAATGAAGTCACCCCTGACGCACCCAATCACCAAATACATCATGACATG	5296
Query	5285		CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGC	5344
Sbjct	5297		CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGC	5356
Query	5345		TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357		TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTT	5416
Query	5405		GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417		GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5476
Query	5465		GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477		GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525		CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537		CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585		TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597		TGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645		CATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657		CATCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705		TTCATTGATGGCTTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCCCTCCT	5764
Sbjct	5717		TTCATTGATGGCTTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCCCTCCT	5776
Query	5765		CTTCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824

Sbjct	5777	 CTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5896
Query	5885	CGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGGACATTCTTGAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Query	6545	CCCCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6784
Sbjct	6737	GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6796
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGAACCGGACGT	6856
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	6857	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964

Sbjct	6917	T G G C G A G A G G T C A C C C C T T C T A T G G C C A G C T C C T C G G C T A G C C A G C T G T C C G C	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCGTCTG	7216
Query	7205	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCG	7336
Query	7325	GAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7384
Sbjct	7337	GAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCAT	7516
Query	7505	GCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7564
Sbjct	7517	GCCCCCGCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGACAGG	7636
Query	7625	CGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAA	7696
Query	7685	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGCAGCCTGACGCCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGT	7924
Sbjct	7877	TTGCAGCCTGACGCCCCCACATTGAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7996
Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044
Sbjct	7997	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCG	8104

Sbjct	8057		GCCTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCCGACCTGGGCGTGCG	8116
Query	8105		CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117		CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165		AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAAGCGTG	8224
Sbjct	8177		AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGTGCAAGCGTG	8236
Query	8225		GAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237		GAAGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8296
Query	8285		CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8344
Sbjct	8297		CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8356
Query	8345		AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357		AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8416
Query	8405		TTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGGAGCGGCGTACTGACAACCTAG	8464
Sbjct	8417		TTCAAGGGGGGAAAACGCGGTACCGCAGGTGCCGCGGAGCGGCGTACTGACAACCTAG	8476
Query	8465		CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8524
Sbjct	8477		CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8536
Query	8525		CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8584
Sbjct	8537		CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8596
Query	8585		GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597		GGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGC	8656
Query	8645		CCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657		CCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705		CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717		CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765		TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTG	8824
Sbjct	8777		TACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTG	8836
Query	8825		GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837		GCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8896
Query	8885		TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8944
Sbjct	8897		TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8956
Query	8945		CGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957		CGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9016
Query	9005		CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017		CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076
Query	9065		CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCG	9124
Sbjct	9077		CCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCG	9136
Query	9125		CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG	9184
Sbjct	9137		CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCTATATGTGGCAAGTACCTCTTCAACTG	9196
Query	9185		GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTC	9244

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Sbjct  9197  |||||
GGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCTC 9256
Query  9245  CGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCCG 9304
Sbjct  9257  CGGTTGGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCCG 9316
Query  9305  GCCCCGCTGGTTCTGGTTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT 9364
Sbjct  9317  GCCCCGCTGGTTCTGGTTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCT 9376
Query  9365  CCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGttttttt 9424
Sbjct  9377  CCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCTGTTTTTTTTT 9436
Query  9425  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9484
Sbjct  9437  TTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCTTTCTTTCTTTCTTTTTTTCTTTTC 9496
Query  9485  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 9544
Sbjct  9497  TTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGT 9556
Query  9545  CCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct  9557  CCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9611
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Score = 1062 bits (575), Expect = 0.0
Identities = 800/906 (88%), Gaps = 26/906 (2%)
Strand=Plus/Plus

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Query  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Sbjct  1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query  61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120
Sbjct  61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120
Query  121  cccccctcccgaggagagccatagtggtctgcggaaccgggtgagtacaccggaattgccag 180
Sbjct  121  CCCCCCTCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCggaattgccgg 180
Query  181  GACGACCGGGTCTTTTCTTGATAAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
Sbjct  181  GAAGACTGGGTCTTTTCTTGATAAAACCCACTCTATGCCCggccattttgggctgcccc 240
Query  241  GCAAGACTGCTAGCCGAGTAGTGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct  241  GCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
Query  301  GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC 360
Sbjct  301  GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACAAATCCTAAAC 360
Query  361  CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
Sbjct  361  CTCAAAGAAAAACCAAAGAAACACCAACCGTCGCCACAAGACGTTAAGTTTCCGGGCG 420
Query  421  GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct  421  GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGCCCCAGGTTGGGTGTGC 480
Query  481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA 540
Sbjct  481  GCGCGACAAGGAAGACTTCGGAGCGGTCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA 540
Query  541  AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGTACCCCTTGCCCCCTC 596
Sbjct  541  AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGGAACAGGATACCCCTTGCCCCCTA 596
Query  597  TATGGCAATGAGGGT-TGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCC 655
Sbjct  597  TACGGGAATGAGGGACT-CGGCTGGGCAGGATGGCTCCTGTCCCCCGAGGTTCCCGTCC 655
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9/8/2009

Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3691
Sbjct	3644	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3703
Query	3692	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3811
Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3823
Query	3812	CATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
Query	3872	GGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	GGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3943
Query	3932	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCTCTCCACC	3991
Sbjct	3944	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCTCTCCACC	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAG	4051
Sbjct	4004	AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAG	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4243
Query	4232	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4291
Sbjct	4244	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4411
Sbjct	4364	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4423
Query	4412	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGG	4471
Sbjct	4424	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCTTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAA	4543

Query	4532	GAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544	GAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTCATCCCACCAGCGGCGATGTTGTCGTCGTGTCGAC	4651
Sbjct	4604	CTACCGCGGTCTTGACGTGTCTGTCATCCCACCAGCGGCGATGTTGTCGTCGTGTCGAC	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGGCAGCTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGGCAGCTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712	TGTCACTCAGACAGTCGATTTTACGCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4771
Sbjct	4724	TGTCACTCAGACAGTCGATTTTACGCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4783
Query	4772	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTTGTGGCACCGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4891
Sbjct	4844	CATCTATAGATTTGTGGCACCGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4951
Sbjct	4904	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5071
Sbjct	5024	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5083
Query	5072	GCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5131
Sbjct	5084	GCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5143
Query	5132	TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5191
Sbjct	5144	TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5203
Query	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAATGAAGTCACCT	5251
Sbjct	5204	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAGAATGAAGTCACCT	5263
Query	5252	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311
Sbjct	5264	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5383
Query	5372	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGAATTATACCTGA	5431
Sbjct	5384	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGAATTATACCTGA	5443
Query	5432	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5491
Sbjct	5444	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5503
Query	5492	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
Sbjct	5504	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5563
Query	5552	GACCGCGTCCCGCCATGCAGAGGTTATACCCCTGCTGTCCAGACCAACTGGCAGAACT	5611
Sbjct	5564	GACCGCGTCCCGCCATGCAGAGGTTATACCCCTGCTGTCCAGACCAACTGGCAGAACT	5623
Query	5612	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGG	5683

Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCAGCCCACTAACCACCTGGCCAAACCCTCCTCTTCAACATATTGGGGGGTGGGTGGC	5791
Sbjct	5744	CACCAGCCCACTAACCACCTGGCCAAACCCTCCTCTTCAACATATTGGGGGGGTGGGTGGC	5803
Query	5792	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5851
Sbjct	5804	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGCTGGACATTCTTGCAGGGTATGGCGC	5911
Sbjct	5864	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGCTGGACATTCTTGCAGGGTATGGCGC	5923
Query	5912	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5971
Sbjct	5924	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCACGCACTACGTGCCGGA	6163
Query	6152	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCTGTACTCCCTTCCTGCGCCGAA	6571
Sbjct	6524	TGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCTGTACTCCCTTCCTGCGCCGAA	6583
Query	6572	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGG	6823

Query	6812	GTCGCAATTACCTTGCGAGCCCGAACC	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824	GTCGCAATTACCTTGCGAGCCCGAACC	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTC		6931
Sbjct	6884	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTC		6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGACACCGC		6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGACACCGC		7003
Query	6992	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT		7051
Sbjct	7004	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT		7063
Query	7052	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGA		7111
Sbjct	7064	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGA		7123
Query	7112	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA		7171
Sbjct	7124	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA		7183
Query	7172	GTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCT		7231
Sbjct	7184	GTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCT		7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC		7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC		7303
Query	7292	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACC		7351
Sbjct	7304	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCTCACC		7363
Query	7352	ATCAACCTTATCTACTGCCTTGCCGAGCTTGCCACCAAAGTTTTGGCAGCTCCTCAAC		7411
Sbjct	7364	ATCAACCTTATCTACTGCCTTGCCGAGCTTGCCACCAAAGTTTTGGCAGCTCCTCAAC		7423
Query	7412	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGCTG		7471
Sbjct	7424	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGCTG		7483
Query	7472	GGGACTCCGACGTTGAGTCCTATTCTTCCATG	GGGAGGGGAGCCTGGGGA	7531
Sbjct	7484	CCCCGACTCCGACGTTGAGTCCTATTCTTCCATG	GGGAGGGGAGCCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT		7591
Sbjct	7544	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT		7603
Query	7592	CGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGA		7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGA		7663
Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT		7711
Sbjct	7664	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT		7723
Query	7712	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT		7771
Sbjct	7724	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT		7783
Query	7772	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAA		7831
Sbjct	7784	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGCGTCAAA		7843
Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGACGCCCCACATTGAGC		7891
Sbjct	7844	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGACGCCCCACATTGAGC		7903
Query	7892	CAAATCCAAGTTTGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC		7951
Sbjct	7904	CAAATCCAAGTTTGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC		7963

Query	7952	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8023
Query	8012	CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGC	8071
Sbjct	8024	CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084	TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8143
Query	8132	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8191
Sbjct	8144	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8203
Query	8192	AGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCTCTGTCGAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACGCGGCTACCG	8431
Sbjct	8384	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACGCGGCTACCG	8443
Query	8432	CAGGTGCCGCGCGAGCGGCGTACTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCGCGCGAGCGGCGTACTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCGAAAAAAAAAGGAAAAACAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAAGTCGCCACGACGGCGC	8731
Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAAGTCGCCACGACGGCGC	8743
Query	8732	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCCC	8851
Sbjct	8804	GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCCC	8863
Query	8852	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8911
Sbjct	8864	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8923
Query	8912	TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT	8971
Sbjct	8924	TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT	8983
Query	8972	GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA	9031
Sbjct	8984	GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA	9043
Query	9032	CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC TTGGGGTCCC GCCCTT	9091
Sbjct	9044	CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC TTGGGGTCCC GCCCTT	9103

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Query 9092 GCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9151
          |||
Sbjct 9104 GCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9163

Query 9152 GGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAC 9211
          |||
Sbjct 9164 GGCTGCTATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAC 9223

Query 9212 TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGG 9271
          |||
Sbjct 9224 TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGG 9283

Query 9272 GGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACT 9331
          |||
Sbjct 9284 GGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACT 9343

Query 9332 CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGATGAAGGTTGGGGTAAAC 9391
          |||
Sbjct 9344 CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGATGAAGGTTGGGGTAAAC 9403

Query 9392 ACTCCGGCCTCTTAAGCCATTTCTG***** 9451
          |||
Sbjct 9404 ACTCCGGCCTCTTAAGCCATTTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTT 9463

Query 9452 *****AATGGTGGCTCCA 9511
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Sbjct 9464 TTTTTTCTTTCCTTTCTTTTTTCTTTTCTTTTCCCTTCTTTAATGGTGGCTCCA 9523

Query 9512 TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG 9571
          |||
Sbjct 9524 TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG 9583

Query 9572 CTGATACTGGCCTCTCTGCAGATCATGT 9599
          |||
Sbjct 9584 CTGATACTGGCCTCTCTGCAGATCATGT 9611
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Score = 1118 bits (605), Expect = 0.0
Identities = 810/906 (89%), Gaps = 26/906 (2%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
          |||
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120
          |||
Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120

Query 121 *****TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
          |||
Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181 GACGACCGGGTCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240
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Sbjct 181 GACGACCGGGTCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240

Query 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

Query 301 GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360
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Sbjct 301 GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAAATCCTAAAC 360

Query 361 CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
          |||
Sbjct 361 CTCAAAGAAAAACCAAAGAAACACCAACCGTCGCCACAAGACGTTAAGTTTCCGGGCG 420

Query 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGGCCCTAGATTGGGTGTGC 480
          |||
Sbjct 421 GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGGCCCAAGTTGGGTGTGC 480

Query 481 GCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
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Sbjct 481 GCGCGACAAGGAAGACTTCCGAGCGGTCCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA 540
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9/8/2009

Query	3272	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3331
Sbjct	3284	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3343
Query	3332	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3643
Query	3632	CATCCAGATGTATAACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3691
Sbjct	3644	CATCCAGATGTATAACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3703
Query	3692	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCC	3811
Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTTCGCCCCGGCC	3823
Query	3812	CATTTCTACTTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCTACTTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
Query	3872	GGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTTATCCC	3931
Sbjct	3884	GGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTTATCCC	3943
Query	3932	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTTACGGACAACCTCTCTCCACC	3991
Sbjct	3944	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTTACGGACAACCTCTCTCCACC	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAG	4051
Sbjct	4004	AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAG	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4243
Query	4232	CAAGTTCTTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4291
Sbjct	4244	CAAGTTCTTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4411
Sbjct	4364	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4423

Query	4412	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCCTTTTACGG	4471
Sbjct	4424	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCCTTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4543
Query	4532	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCATGTTGTCGTCGTGTCGAC	4651
Sbjct	4604	CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCATGTTGTCGTCGTGTCGAC	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712	TGTCACTCAGACAGTCGATTTTACGCCCTTACCTTTTACCATTGAGACAACCACGCT	4771
Sbjct	4724	TGTCACTCAGACAGTCGATTTTACGCCCTTACCTTTTACCATTGAGACAACCACGCT	4783
Query	4772	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4891
Sbjct	4844	CATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGT	4951
Sbjct	4904	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGT	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5071
Sbjct	5024	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5083
Query	5072	GCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5131
Sbjct	5084	GCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5143
Query	5132	TCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5191
Sbjct	5144	TCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5203
Query	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCT	5251
Sbjct	5204	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCT	5263
Query	5252	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311
Sbjct	5264	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5383
Query	5372	AGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431
Sbjct	5384	AGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5491
Sbjct	5444	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5503
Query	5492	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
Sbjct	5504	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5563

Query	5552	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5611
Sbjct	5564	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5623
Query	5612	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTTGGCGGG	5671
Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTTGGCGGG	5683
Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCAGCCCACTAACCCTGGCCAAACCCCTCCTCTTCAACATATTggggggTGGGTGGC	5791
Sbjct	5744	CACCAGCCCACTAACCCTGGCCAAACCCCTCCTCTTCAACATATTGGGGGGGTGGGTGGC	5803
Query	5792	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5851
Sbjct	5804	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGGACATTCTTGCAGGGTATGGCGC	5911
Sbjct	5864	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCTCTGTTGGACATTCTTGCAGGGTATGGCGC	5923
Query	5912	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGA	5971
Sbjct	5924	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6163
Query	6152	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTTCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTTCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTGCCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAA	6571
Sbjct	6524	TGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAA	6583
Query	6572	CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCCGTGCCAGATCCC	6703

Query	6692	ATCGCCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTTACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGG	6823
Query	6812	GTCGCAATTACCTTGCGAGCCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824	GTCGCAATTACCTTGCGAGCCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6931
Sbjct	6884	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7063
Query	7052	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112	TCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7171
Sbjct	7124	TCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7183
Query	7172	GTCTCGGAGATTGCCCCGGGCCCTGCCCCTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7231
Sbjct	7184	GTCTCGGAGATTGCCCCGGGCCCTGCCCCTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCCGTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCCGTACC	7303
Query	7292	ACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACC GA	7351
Sbjct	7304	ACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACC GA	7363
Query	7352	ATCAACCTTATCTACTGCCTTGCCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCTTATCTACTGCCTTGCCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7423
Query	7412	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCC	7471
Sbjct	7424	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTGCCC	7483
Query	7472	CCCCGACTCCGACGTTGAGTCTATTCTTCCATGCCCCCCCCTGGAGGGGGAGCCTGGGGA	7531
Sbjct	7484	CCCCGACTCCGACGTTGAGTCTATTCTTCCATGCCCCCCCCTGGAGGGGGAGCCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7591
Sbjct	7544	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7603
Query	7592	CGTGTGCTGCTCAATGTCTTATTCCCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCCCTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGA	7663
Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTTGCTACGCCATCACAATCTGGT	7711
Sbjct	7664	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTTGCTACGCCATCACAATCTGGT	7723
Query	7712	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7771
Sbjct	7724	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7783
Query	7772	GCAAGTTCGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7831
Sbjct	7784	GCAAGTTCGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7843

Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCCTGACGCCCCCACATTCAGC	7891
Sbjct	7844	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACGCCTGACGCCCCCACATTCAGC	7903
Query	7892	CAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7951
Sbjct	7904	CAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7963
Query	7952	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8023
Query	8012	CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGC	8071
Sbjct	8024	CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGC	8131
Sbjct	8084	TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGC	8143
Query	8132	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8191
Sbjct	8144	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8203
Query	8192	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC	8431
Sbjct	8384	TGAGAGGCTTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC	8443
Query	8432	CAGGTGCCGCGCGAGCGGCGTACTGACAAC	8491
Sbjct	8444	CAGGTGCCGCGCGAGCGGCGTACTGACAAC	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCGAGCCGAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCG	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCG	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGC	8731
Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGC	8743
Query	8732	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCCC	8851
Sbjct	8804	GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCCC	8863
Query	8852	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8911
Sbjct	8864	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8923
Query	8912	TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT	8971
Sbjct	8924	TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT	8983

Query	8972	GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA	9031
Sbjct	8984	GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA	9043
Query	9032	CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACCTGGGGTCCCCGCCCTT	9091
Sbjct	9044	CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACCTGGGGTCCCCGCCCTT	9103
Query	9092	GCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG	9151
Sbjct	9104	GCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG	9163
Query	9152	GGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAC	9211
Sbjct	9164	GGCTGCTATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCAC	9223
Query	9212	TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGG	9271
Sbjct	9224	TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGG	9283
Query	9272	GGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACT	9331
Sbjct	9284	GGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACT	9343
Query	9332	CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC	9391
Sbjct	9344	CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC	9403
Query	9392	ACTCCGGCCTCTTAAGCCATTTCCTG	9451
Sbjct	9404	ACTCCGGCCTCTTAAGCCATTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTT	9463
Query	9452	AATGGTGGCTCCA	9511
Sbjct	9464	TTTTTCTTTCTTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT	9523
Query	9512	TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG	9571
Sbjct	9524	TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG	9583
Query	9572	CTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9584	CTGATACTGGCCTCTCTGCAGATCATGT	9611

Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCTGGGTG	420

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Sbjct  361  CTCAAAGAAAAACAAAAGAAACACCAACCGTCGCCACAAAGACGTTAAGTTTCCGGGCG 420
Query  421  GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
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Sbjct  421  GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGCCCCAGGTTGGGTGTGC 480
Query  481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540
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Sbjct  481  GCGCGACAAGGAAGACTTTCGGAGCGGTCCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA 540
Query  541  AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCCTTGCCCCCTC 596
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Sbjct  541  AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGGAAAACCAGGATACCCCTGGCCCCCTA 596
Query  597  TATGGCAATGAGGGT-TGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCC 655
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Sbjct  597  TACGGGAATGAGGGACT-CGGCTGGGCAGGATGGCTCCTGTCCCCCGAGGTTCCCGTCC 655
Query  656  -TAGCT-GGGGCCCCACA-GACCCCCGGCGTAGGTGCGCAATTTGGGTAAGGTCATCGA 712
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Sbjct  656  CT--CTTGGGGCCCCA-ATGACCCCCGGCATAGGTGCGCAACGTGGGTAAGGTCATCGA 712
Query  713  TACCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCCTC 771
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Sbjct  713  TACCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCGC 771
Query  772  TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC 830
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Sbjct  772  TCGGCGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCCTGGAGGACGGGGTTAAT 830
Query  831  TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTTCTCTATCTTCCTT-CTGGCCCTGCTC 887
      |||||
Sbjct  831  TTTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-TCTATCTTC-TTGCTGGCCCTGCTG 887
Query  888  TCTTGC 893
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Sbjct  888  TCCTGC 893

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>emb|AX057092.1| Sequence 7 from Patent WO0075338
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.263e+04 bits (6838), Expect = 0.0
Identities = 6858/6868 (99%), Gaps = 0/6868 (0%)
Strand=Plus/Plus

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Query  2732  CCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCACTGGACACGGAGGTGGCCGCGTC 2791
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Sbjct  2744  CCTACTGCTCCTAGCATTGCCCAACAGGCATATGCACTGGACACGGAGGTGGCCGCGTC 2803
Query  2792  GTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCCATATTACAAGCG 2851
      |||||
Sbjct  2804  GTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCCATATTACAAGCG 2863
Query  2852  CTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2911
      |||||
Sbjct  2864  CTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT 2923
Query  2912  GCACGTGTGGGTTTCAACGTCCCGCGGCGGCGATGCCGTCATCTTACTCAT 2971
      |||||
Sbjct  2924  GCACGTGTGGGTTCCCCCCTCAACGTCCGGGGGGGCGCGATGCCGTCATCTTACTCAT 2983
Query  2972  GTGTGTAGTACACCCGACCCTGGTATTTGACATACCAAACACTCTCTGGCCATCTTCGG 3031
      |||||
Sbjct  2984  GTGTGTAGTACACCCGACCCTGGTATTTGACATACCAAACACTCTCTGGCCATCTTCGG 3043
Query  3032  ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGG 3091
      |||||
Sbjct  3044  ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGG 3103
Query  3092  CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGC 3151
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Sbjct	3104	CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGC	3163
Query	3152	CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3211
Sbjct	3164	CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3223
Query	3212	AGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTC	3271
Sbjct	3224	AGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACAGTCGTCTTCTC	3283
Query	3272	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3331
Sbjct	3284	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3343
Query	3332	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCAGGAGATACTGCTTGGGCCAGCCGACGG	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3691
Sbjct	3644	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3703
Query	3692	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3811
Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3823
Query	3812	CATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
Query	3872	GGGCCTATTACAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	GGGCCTATTACAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3943
Query	3932	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCTCTCCACC	3991
Sbjct	3944	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCTCTCCACC	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAG	4051
Sbjct	4004	AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCACCGGCAGCGGTAAGAG	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4243
Query	4232	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4291
		CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	

Sbjct	4244	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACGTGT	4411
Sbjct	4364	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACGTGT	4423
Query	4412	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4471
Sbjct	4424	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4543
Query	4532	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTTCGCATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTTCGCATTGGGCATCAATGCCGTGGCCTA	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTCATCCCAGCAGCGCGATGTTGTCGTCGTGTCGAC	4651
Sbjct	4604	CTACCGCGGTCTTGACGTGTCTGTCATCCCAGCAGCGCGATGTTGTCGTCGTGTCGAC	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712	TGTCACTCAGACAGTCGATTTACGCCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4771
Sbjct	4724	TGTCACTCAGACAGTCGATTTACGCCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4783
Query	4772	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4891
Sbjct	4844	CATCTATAGATTTGTGGCACCAGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4951
Sbjct	4904	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5071
Sbjct	5024	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5083
Query	5072	GCAGAGTGGGGAGAACTTTCCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5131
Sbjct	5084	GCAGAGTGGGGAGAACTTTCCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5143
Query	5132	TCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5191
Sbjct	5144	TCAAGCCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5203
Query	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCT	5251
Sbjct	5204	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCT	5263
Query	5252	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311
Sbjct	5264	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5383
Query	5372	AGGCTGCGTGGTCTAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431

Sbjct	5384	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432	CAGGGAGGTTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5491
Sbjct	5444	CAGGGAGGTTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5503
Query	5492	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
Sbjct	5504	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5563
Query	5552	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5611
Sbjct	5564	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5623
Query	5612	CGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624	CGAGGTCCTTTTGGGCGAAGCACATGTGGAATTTTCATCAGTGGGATACAATACTTGGCGGG	5683
Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTgggggggTGGGTGGC	5791
Sbjct	5744	CACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTGGGGGGGTGGGTGGC	5803
Query	5792	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5851
Sbjct	5804	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC	5911
Sbjct	5864	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC	5923
Query	5912	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5971
Sbjct	5924	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCC GCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCC GCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCAGCTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6163
Query	6152	GAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164	GAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAA	6571

Sbjct	6524	TGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAA	6583
Query	6572	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTTTACAGAAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTTACAGAAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAGTAGGACTCCACGAGTACCCGGTGGG	6823
Query	6812	GTCGCAATTACCTTGCGAGCCCGAACC GGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824	GTCGCAATTACCTTGCGAGCCCGAACC GGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTC	6931
Sbjct	6884	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTC	6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7063
Query	7052	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112	TCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7171
Sbjct	7124	TCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7183
Query	7172	GTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7231
Sbjct	7184	GTCTCGGAGATTGCCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACC GA	7351
Sbjct	7304	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACC GA	7363
Query	7352	ATCAACCCTATCTACTGCCTTGCCGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCTATCTACTGCCTTGCCGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAAC	7423
Query	7412	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCC	7471
Sbjct	7424	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCC	7483
Query	7472	GGGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCTGGAGGGGGAGCCTGGGGA	7531
Sbjct	7484	CCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCTGGAGGGGGAGCCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7591
Sbjct	7544	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7603
Query	7592	CGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGA	7663
Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAACTCTGGT	7711

Sbjct	7664	AGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7723
Query	7712	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7771
Sbjct	7724	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7783
Query	7772	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7831
Sbjct	7784	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7843
Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGACGCCCCACATTTCAGC	7891
Sbjct	7844	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGACAGCCTGACGCCCCACATTTCAGC	7903
Query	7892	CAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7951
Sbjct	7904	CAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7963
Query	7952	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8023
Query	8012	CATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGC	8071
Sbjct	8024	CATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084	TCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8143
Query	8132	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8191
Sbjct	8144	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8203
Query	8192	AGGACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCTCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TGCGGCTACCG	8431
Sbjct	8384	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TGCGGCTACCG	8443
Query	8432	CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCTGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccccgggggacccccACAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGA	8683
Query	8672	ATACGACTTGAGGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGC	8731
Sbjct	8684	ATACGACTTGAGGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGC	8743
Query	8732	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACACTCCAGTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCC	8851

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Sbjct 8864 CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA 8923
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Sbjct 8924 TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCT 8983
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Sbjct 9584 CTGATACTGGCCTCTCTGCAGATCATGT 9611
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Score = 1118 bits (605), Expect = 0.0
Identities = 810/906 (89%), Gaps = 26/906 (2%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
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Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120
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Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120
Query 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
      |||
Sbjct 121 CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Query 181 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTTGGGCGTGCCCCC 240
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Sbjct 181 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCCTGGAGATTTGGGCGTGCCCCC 240
Query 241 GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
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Sbjct	241		GCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301		GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC	360
Sbjct	301		GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACAAATCCTAAAC	360
Query	361		CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361		CTCAAAGAAAAACCAAAGAAACACCAACCGTCGCCACAAGACGTTAAGTTTCCGGGCG	420
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Sbjct	421		GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGCCCCAGGTTGGGTGTGC	480
Query	481		GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481		GCGCGACAAGGAAGACTTCGGAGCGGTCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA	540
Query	541		AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGTACCCTTGGCCCCCTC	596
Sbjct	541		AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGAAAACCAGGATACCCCTGGCCCCCTA	596
Query	597		TATGGCAATGAGGGT-TGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCC	655
Sbjct	597		TACGGGAATGAGGGACT-CGGCTGGGCAGGATGGCTCCTGTCCCCCGAGGTTCCCGTCC	655
Query	656		-TAGCT-GGGGCCCCACA-GACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGA	712
Sbjct	656		CT--CTTGGGGCCCCA-ATGACCCCGGCATAGGTCGCGCAACGTGGGTAAGGTCATCGA	712
Query	713		TACCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCCTC	771
Sbjct	713		TACCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCGC	771
Query	772		TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC	830
Sbjct	772		TCGGCGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTGGAGGACGGGGTTAAT	830
Query	831		TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTCTCTATCTTCCTT-CTGGCCCTGCTC	887
Sbjct	831		TTTGCAACAGGGAAC-TTACCCGGTTGCTCCTTT-TCTATCTTC-TTGCTGGCCCTGCTG	887
Query	888		TCTTGC 893	
Sbjct	888		TCCTGC 893	

>emb|AX057088.1| Sequence 3 from Patent WO0075338
Length=9611

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.263e+04 bits (6838), Expect = 0.0
Identities = 6858/6868 (99%), Gaps = 0/6868 (0%)
Strand=Plus/Plus

Query	2732		CCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGACTGGACACGGAGGTGGCCGCGTC	2791
Sbjct	2744		CCTACTGCTCCTAGCATTGCCCCAACAGGCATATGCACTGGACACGGAGGTGGCCGCGTC	2803
Query	2792		GTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCGCCATATTACAAGCG	2851
Sbjct	2804		GTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGACTCTGTGCGCCATATTACAAGCG	2863
Query	2852		CTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT	2911
Sbjct	2864		CTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACT	2923
Query	2912		GCACGTGTGGGTTTCAACGTCCCGCGGCGCGATGCCGTCATCTTACTCAT	2971
Sbjct	2924		GCACGTGTGGGTTCCCCCCTCAACGTCCGGGGGGGGCGCGATGCCGTCATCTTACTCAT	2983
Query	2972		GTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGGCCATCTTCGG	3031

Sbjct	2984	 GTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAACCTACTCCTGGCCATCTTTCGG	3043
Query	3032	 ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGG	3091
Sbjct	3044	 ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGG	3103
Query	3092	 CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGC	3151
Sbjct	3104	 CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGC	3163
Query	3152	 CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3211
Sbjct	3164	 CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3223
Query	3212	 AGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTC	3271
Sbjct	3224	 AGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAAGTCGTCTTCTC	3283
Query	3272	 CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCAGTGACATCAT	3331
Sbjct	3284	 CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCAGTGACATCAT	3343
Query	3332	 CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344	 CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3403
Query	3392	 AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3451
Sbjct	3404	 AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCAGCAGACGAG	3463
Query	3452	 AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	 AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	 TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	 TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCTGGCAACGTGCATCAATGGGGT	3583
Query	3572	 ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbjct	3584	 ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3643
Query	3632	 CATCCAGATGTATAACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3691
Sbjct	3644	 CATCCAGATGTATAACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTT	3703
Query	3692	 CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	 CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
Query	3752	 CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTGCCCCGGCC	3811
Sbjct	3764	 CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTGCCCCGGCC	3823
Query	3812	 CATTTCTACTTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	 CATTTCTACTTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
Query	3872	 GGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	 GGGCCTATTGAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3943
Query	3932	 TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCTCTCCACC	3991
Sbjct	3944	 TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTACGGACAACCTCTCTCCACC	4003
Query	3992	 AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4051
Sbjct	4004	 AGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4063
Query	4052	 CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	 CACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	 TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171

Sbjct	4124		TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4183
Query	4172		TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjct	4184		TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4243
Query	4232		CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4291
Sbjct	4244		CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4303
Query	4292		GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304		GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4363
Query	4352		GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACGTGT	4411
Sbjct	4364		GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACGTGT	4423
Query	4412		GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4471
Sbjct	4424		GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4483
Query	4472		CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
Sbjct	4484		CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4543
Query	4532		GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544		GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4603
Query	4592		CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGAC	4651
Sbjct	4604		CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGAC	4663
Query	4652		CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664		CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712		TGTCACTCAGACAGTCGATTTACGCCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4771
Sbjct	4724		TGTCACTCAGACAGTCGATTTACGCCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4783
Query	4772		CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784		CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4843
Query	4832		CATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4891
Sbjct	4844		CATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCCT	4903
Query	4892		CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4951
Sbjct	4904		CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGT	4963
Query	4952		TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5011
Sbjct	4964		TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
Query	5012		TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5071
Sbjct	5024		TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5083
Query	5072		GCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5131
Sbjct	5084		GCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5143
Query	5132		TCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5191
Sbjct	5144		TCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5203
Query	5192		CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTTCAGAAATGAAGTCACCCT	5251
Sbjct	5204		CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTTTCAGAAATGAAGTCACCCT	5263
Query	5252		GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311

Sbjct	5264		GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5323
Query	5312		GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324		GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5383
Query	5372		AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431
Sbjct	5384		AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432		CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5491
Sbjct	5444		CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5503
Query	5492		CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
Sbjct	5504		CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5563
Query	5552		GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACT	5611
Sbjct	5564		GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACT	5623
Query	5612		CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624		CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTATCAGTGGGATACAATACTTGGCGGG	5683
Query	5672		CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684		CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732		CACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTggggggTGGGTGGC	5791
Sbjct	5744		CACCAGCCCACTAACCCTGGCCAAACCCTCCTCTTCAACATATTGGGGGGGTGGGTGGC	5803
Query	5792		TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5851
Sbjct	5804		TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5863
Query	5852		CGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTCGTGGACATTCTTGCAGGGTATGGCGC	5911
Sbjct	5864		CGCCATCGGCAGCGTTGGACTGGGGAAGTCTCTCGTGGACATTCTTGCAGGGTATGGCGC	5923
Query	5912		GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGA	5971
Sbjct	5924		GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCCTCCACGGA	5983
Query	5972		GGACCTGGTCAATCTGCTGCCC GCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6031
Sbjct	5984		GGACCTGGTCAATCTGCTGCCC GCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6043
Query	6032		CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044		CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092		CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104		CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6163
Query	6152		GAGCGATGCAGCCGCCC GCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164		GAGCGATGCAGCCGCCC GCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6223
Query	6212		GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCCTGGCT	6271
Sbjct	6224		GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTAACCACTCCATGCTCCGGTTCCCTGGCT	6283
Query	6272		AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284		AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332		CAAGCTCATGCCACAAC TGCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344		CAAGCTCATGCCACAAC TGCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6403
Query	6392		GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451

Sbjct	6404		GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452		ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464		ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512		TGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCCCTGTACTCCCCTTCCTGCGCCGAA	6571
Sbjct	6524		TGGGACGTTCCCCATTAAACGCCTACACCACGGGCCCCCTGTACTCCCCTTCCTGCGCCGAA	6583
Query	6572		CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584		CTATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632		GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644		GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692		ATCGCCCGAATTTTTTACAGAATTGGACGGGTGCGCCTACACAGGTTTTCGCCCCCTTG	6751
Sbjct	6704		ATCGCCCGAATTTTTTACAGAATTGGACGGGTGCGCCTACACAGGTTTTCGCCCCCTTG	6763
Query	6752		CAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764		CAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6823
Query	6812		GTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824		GTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6883
Query	6872		TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6931
Sbjct	6884		TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6943
Query	6932		TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944		TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992		CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004		CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7063
Query	7052		GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064		GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112		TCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7171
Sbjct	7124		TCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7183
Query	7172		GTCTCGGAGATTGCCCCGGGCCCTGCCCCTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7231
Sbjct	7184		GTCTCGGAGATTGCCCCGGGCCCTGCCCCTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7243
Query	7232		AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCCGTACC	7291
Sbjct	7244		AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCCGTACC	7303
Query	7292		ACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCCTACCGA	7351
Sbjct	7304		ACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCCTACCGA	7363
Query	7352		ATCAACCCATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAAC	7411
Sbjct	7364		ATCAACCCATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAAC	7423
Query	7412		TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	7471
Sbjct	7424		TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCCCCTTCTGGCTG	7483
Query	7472		GGGACTCCGACGTTGAGTCCTATTCTTCCATGTTTTTGGAGGGGGAGCCTGGGGA	7531
Sbjct	7484		CCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCCCCTGGAGGGGGAGCCTGGGGA	7543
Query	7532		TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7591

Sbjct	7544		TCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7603
Query	7592		CGTGTGCTGCTCAATGTCTTATTCCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGA	7651
Sbjct	7604		CGTGTGCTGCTCAATGTCTTATTCCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGA	7663
Query	7652		AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7711
Sbjct	7664		AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7723
Query	7712		GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7771
Sbjct	7724		GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7783
Query	7772		GCAAGTTCGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7831
Sbjct	7784		GCAAGTTCGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7843
Query	7832		AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCGAGCCTGACGCCCCACATTCAGC	7891
Sbjct	7844		AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCGAGCCTGACGCCCCACATTCAGC	7903
Query	7892		CAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7951
Sbjct	7904		CAAATCCAAGTTTGGCTATGGGGCAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7963
Query	7952		CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964		CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8023
Query	8012		CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGC	8071
Sbjct	8024		CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGC	8083
Query	8072		TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084		TCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8143
Query	8132		CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8191
Sbjct	8144		CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8203
Query	8192		AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204		AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252		CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264		CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312		GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324		GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8383
Query	8372		TGAGAGGCTTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TGCGGCTACCG	8431
Sbjct	8384		TGAGAGGCTTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAAC TGCGGCTACCG	8443
Query	8432		CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8491
Sbjct	8444		CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8503
Query	8492		CAAGGCCCGGGCAGCCTGTCGAGCCGCGAGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
Sbjct	8504		CAAGGCCCGGGCAGCCTGTCGAGCCGCGAGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552		CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8611
Sbjct	8564		CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612		AGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccccggggccccccACAACCAGA	8671
Sbjct	8624		AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGA	8683
Query	8672		ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCACGACGGCGC	8731

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Sbjct  8684  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 8743
Query   8732  TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG 8791
Sbjct  8744  TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG 8803
Query   8792  GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCCC 8851
Sbjct  8804  GGAGACAGCAAGACACACTCCAGTCAATTCCCTGGCTAGGCAACATAATCATGTTTGCCCC 8863
Query   8852  CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA 8911
Sbjct  8864  CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA 8923
Query   8912  TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT 8971
Sbjct  8924  TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT 8983
Query   8972  GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9031
Sbjct  8984  GGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTA 9043
Query   9032  CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACCTGGGGTCCCCGCCCTT 9091
Sbjct  9044  CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACCTGGGGTCCCCGCCCTT 9103
Query   9092  GCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9151
Sbjct  9104  GCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAG 9163
Query   9152  GGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCAC 9211
Sbjct  9164  GGCTGCTATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCAC 9223
Query   9212  TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTTCACGGCTGGCTACAGCGG 9271
Sbjct  9224  TCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTTTCACGGCTGGCTACAGCGG 9283
Query   9272  GGGAGACATTTATCACAGCGTGTCTCATGCCCCGGCCCCGCTGGTTCTGGTTTTGCCTACT 9331
Sbjct  9284  GGGAGACATTTATCACAGCGTGTCTCATGCCCCGGCCCCGCTGGTTCTGGTTTTGCCTACT 9343
Query   9332  CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC 9391
Sbjct  9344  CCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAAC 9403
Query   9392  ACTCCGGCCTCTTAAGCCATTTCCCTG| 9451
Sbjct  9404  ACTCCGGCCTCTTAAGCCATTTCCCTG| 9463
Query   9452  | 9511
Sbjct  9464  | 9523
Query   9512  TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG 9571
Sbjct  9524  TCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTG 9583
Query   9572  CTGATACTGGCCTCTCTGCAGATCATGT 9599
Sbjct  9584  CTGATACTGGCCTCTCTGCAGATCATGT 9611

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Score = 1118 bits (605), Expect = 0.0
 Identities = 810/906 (89%), Gaps = 26/906 (2%)
 Strand=Plus/Plus

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Query   1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60
Sbjct   1  GCCAGCCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60

Query   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120
Sbjct   61  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120

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Query 121  cccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180
Sbjct 121  CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180

Query 181  GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240
Sbjct 181  GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 240

Query 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300
Sbjct 241  GCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATAGG 300

Query 301  GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAAC 360
Sbjct 301  GTGCTTGCAGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACAAATCCTAAAC 360

Query 361  CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGTG 420
Sbjct 361  CTCAAAGAAAAACCAAAGAAACACCAACCGTCGCCACAAGACGTAAAGTTTCCGGGCG 420

Query 421  GCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTGC 480
Sbjct 421  GCGGCCAGATCGTTGGCGGAGTATACTTGTGTCGCGCAGGGGCCCCAGGTTGGGTGTGC 480

Query 481  GCGCGACGAGGAAGACTTCCGAGCGGTGCAACCTCGAGGTAGACGTGAGCCTATCCCCA 540
Sbjct 481  GCGCGACAAGGAAGACTTCGGAGCGGTCCAGCCACGTGGAAGGCGCCAGCCCATCCCTA 540

Query 541  AGGCA-CGTCGGC-CCGAG-GGCAGGA-CCTGGGCTCAGCCCGGGTACCCTTGGCCCTC 596
Sbjct 541  AAG-ATCGGCG-CTCC-ACTGGCAA-ATCCTGGGAAAACAGGATACCCCTGGGCCCTA 596

Query 597  TATGGCAATGAGGGT-TGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCC 655
Sbjct 597  TACGGGAATGAGGGACT-CGGCTGGGCAGGATGGCTCCTGTCCCCCGAGGTTCCCGTCC 655

Query 656  -TAGCT-GGGGCCCCACA-GACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGA 712
Sbjct 656  CT--CTTGGGGCCCCA-ATGACCCCGGCATAGGTCGCGCAACGTGGGTAAGGTCATCGA 712

Query 713  TACCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACC-GCTCGTCGGCGCCCCCTC 771
Sbjct 713  TACCCTAACGTGCGGCTTTGCCGACCTCATGGGGTACATCCCTG-TCGTGGGCGCCCCGC 771

Query 772  TTGGAGGCG-CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAAC 830
Sbjct 772  TCGGCGGCGTC-GCCAGAGCTCTCGCGCATGGCGTGAGAGTCTGGAGGACGGGGTTAAT 830

Query 831  TATGCAACAGGGAACCTT-CCTGGTTGCTC-TTTCTCTATCTTCCTT-CTGGCCCTGCTC 887
Sbjct 831  TTTGCAACAGGGAAC-TTACCCGTTGCTCCTTT-TCTATCTTC-TTGCTGGCCCTGCTG 887

Query 888  TCTTGC 893
Sbjct 888  TCCTGC 893

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>**gb|EA372967.1|** Sequence 3 from patent US 7314710
Length=8451

Sort alignments for this subject se
E value **Score** **Percent identity**
Query start position **Subject sta**

Score = 1.208e+04 bits (6542), Expect = 0.0
Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
Strand=Plus/Plus

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Query 2769  CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGCGCTG 2828
Sbjct 1629  CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGCGCTG 1688

Query 2829  ACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888
Sbjct 1689  ACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 1748

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Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCgggggggg	2948
Sbjct	1749	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCCGGGGGGGG	1808
Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	1809	CGCGATGCCGTCATCTTACTCATGTGTGTTGTACACCCGACTCTGGTATTTGACATCACC	1868
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	1869	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGTTTAAAGTC	1928
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1929	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	1987
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	1988	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTGGCACCTATGT	2047
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	3247
Sbjct	2048	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	2107
Query	3248	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	2108	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	2167
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	3367
Sbjct	2168	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	2227
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	2228	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	2287
Query	3428	CACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	2288	CACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATCACCCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCCAAGGGTCTGTCTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	2528	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGA	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTTCGCCCGGCCCATTTCTTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTCGCCCGGCCCATTTCTTACTTAAAGGCTCCTCGGGGGGTCCGCT	2707
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2708	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2768	GGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT	2827
Query	3968	GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	4027
Sbjct	2828	GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	2887

Query	4028	TGCTCCACACGGGAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2888	TGCTCCACACGGGAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	3067
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	3128	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	3187
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	3188	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGC	3247
Query	4388	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	3307
Query	4448	CACCGGAGAGATCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	3308	CACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	3366
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCA	4626
Sbjct	3427	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTATCCCGACCA	3486
Query	4627	GCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487	GCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTA	3606
Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	3607	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	3666
Query	4807	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	3667	GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	3726
Query	4867	CCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAG	5046
Sbjct	3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCATATAG	3906
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	3967	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCATCGTGGGACCAGATGTGGA	4026

Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
Query	5227	GCGCTGTTTCAAGTGAAGTACACCTGACGCACCCAATACCAAATACATCATGACATGCA	5286
Sbjct	4087	GCGCTGTTTCAAGTGAAGTACACCTGACGCACCCAATACCAAATACATCATGACATGCA	4146
Query	5287	TGTCGGCCGACCTGGAGGTCTGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTG	5346
Sbjct	4147	TGTCGGCCGACCTGGAGGTCTGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTG	4206
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	4207	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGTCTTGT	4266
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	4267	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	4326
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	4387	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	4506
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	4507	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	5766
Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	4626
Query	5767	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4627	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4687	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	4746
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	4926
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	4986
Query	6127	TTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	6186
Sbjct	4987	TTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	5046
Query	6187	GCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	5047	GCAGCCTCACTGTAACCCAGTCTCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA	5106
Query	6247	CCACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CCACTCCATGCTCCGGTCTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166

Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366
Sbjct	5167	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	5227	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	5347	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	5406
Query	6547	CCTGTACTCCCTTCTCGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCTGTACTCCCTTCTCGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	5466
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATTGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	6786
Sbjct	5587	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGAGCCGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCAGAGCCGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	5766
Query	6907	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	5767	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCAGCTGTCCGCTC	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATACCAGGGTTGAGTCAGAGAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	6006
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTTGGG	7206
Sbjct	6007	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTTGGG	6066
Query	7207	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266
Sbjct	6067	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	6126
Query	7267	CTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	7326
Sbjct	6127	CTGTGGTCCATGGCTGCCCCTACACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	6186
Query	7327	AAAAGCGTACGGTGGTCTCACC GAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	6187	AAAAGCGTACGGTGGTCTCACC GAATCAACCCTACCTACTGCCTTGGCCGAGCTTGCCA	6246
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCT	7446
Sbjct	6247	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	6306

Query	7447	CTGAGCCCCGCCCTTCTGGCTG	7506
Sbjct	6307	CTGAGCCCCGCCCTTCTGGCTG	6366
Query	7507	CTGAGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCA	7566
Sbjct	6367	CTGAGAGGGGGAGCCTGGGGATCCGGATTTTCTCAGCGACGGGTCATGGTCGACGGTCA	6426
Query	7567	GTAGTGGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	6427	GTAGTGGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCTGGACAGGCG	6486
Query	7627	CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	6487	CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT	6546
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCCAAAGGC	7746
Sbjct	6547	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACCTTACGCAGTGCTTGCCAAAGGC	6606
Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	6607	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	6666
Query	7807	AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	6667	AGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	6726
Query	7867	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCC	7926
Sbjct	6727	GCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCC	6786
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	7986
Sbjct	6787	GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	6846
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTTCAGC	8046
Sbjct	6847	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGCTTCTGCGTTTCAGC	6906
Query	8047	CTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGC	8106
Sbjct	6907	CTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGC	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTGATGGGAA	7026
Query	8167	GCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTCGCAAGCGTGGA	8226
Sbjct	7027	GCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTCGCAAGCGTGGA	7086
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	7087	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
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Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406
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Query	8407	CAAGGGGGGAAAACGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAGCT	8466
Sbjct	7267	CAAGGGGGGAAAACGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAGCT	7326
Query	8467	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC	8526
Sbjct	7327	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC	7386
Query	8527	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGC	8586
Sbjct	7387	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGC	7446

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Query 8587 TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGccc 8646
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Sbjct 7447 TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGTACTCCGCCCC 7506

Query 8647 cccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 8706
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Sbjct 7507 CCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 7566

Query 8707 ACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA 8766
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Sbjct 7567 ACGTGTCTAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACCCGTGACCCTA 7626

Query 8767 CAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTGGC 8826
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Sbjct 7627 CAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTCTGGC 7686

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Query 8887 TCTTTAGCGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACG 8946
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Sbjct 7747 TCTTTAGCGTCTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACG 7806

Query 8947 GAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC 9006
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Sbjct 7807 GAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC 7866

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Sbjct 7867 TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGGCCGCATGCC 7926

Query 9067 TCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG 9126
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Sbjct 7927 TCAGAAAACCTGGGGTCCCGCCCTTGCAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG 7986

Query 9127 CTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG 9186
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Query 9187 CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG 9246
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Query 9247 GTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC 9306
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Query 9307 CCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 9366
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Sbjct 8167 CCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 8226

Query 9367 CCAACCGATGA-AGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT-CCTG***** 9424
      |||
Sbjct 8227 CCAACCGGTGACA--TT----TCC-CTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCC-TTTTTTT 8278

Query 9425 *****cttttttttttttttttttttttttttttttttttttttttttttttttttttt 9484
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Query 9485 *****AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG 9542
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Sbjct 8335 TCTTCTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG 8394

Query 9543 GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 9599
      |||
Sbjct 8395 GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 8451
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Score = 1062 bits (575), Expect = 0.0
Identities = 584/588 (99%), Gaps = 2/588 (0%)
Strand=Plus/Plus

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Query 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT 59
      |||
Sbjct 1 GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT 59
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Query 60      GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119
Sbjct 60      GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 119

Query 120     cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179
Sbjct 120     CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA 179

Query 180     GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 239
Sbjct 180     GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCC 239

Query 240     CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTTGGTACTGCCTGATAG 299
Sbjct 240     CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTTGGTACTGCCTGATAG 299

Query 300     GGTGCTTGCAGTGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359
Sbjct 300     GGTGCTTGCAGTGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA 359

Query 360     CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT 419
Sbjct 360     CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT 419

Query 420     GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG 479
Sbjct 420     GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTCGCGCAGGGGCCCTAGATTGGGTGTG 479

Query 480     CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCC 539
Sbjct 480     CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGTGGTAGACGTCAGCCTATCCCC 539

Query 540     AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT 587
Sbjct 540     AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT 587

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>dbj|DD070078.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=8451

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.208e+04 bits (6542), Expect = 0.0
Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
Strand=Plus/Plus

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Query 2769    CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGCGCTG 2828
Sbjct 1629    CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTTCGGGTTAATGGCGCTG 1688

Query 2829    ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888
Sbjct 1689    ACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 1748

Query 2889    CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCccccccTCAACGTCCgggggggg 2948
Sbjct 1749    CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCccccccTCAACGTCCGGGGGGGG 1808

Query 2949    CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC 3008
Sbjct 1809    CGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATTTGACATCACC 1868

Query 3009    AAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC 3068
Sbjct 1869    AAATACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC 1928

Query 3069    CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC 3127
Sbjct 1929    CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C 1987

Query 3128    CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT 3187
Sbjct 1988    CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTGGCACCTATGT 2047

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Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	3247
Sbjct	2048	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	2107
Query	3248	GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	2108	GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	2167
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	3367
Sbjct	2168	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	2227
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	2228	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	2287
Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	2288	CACGGCGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
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Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	2528	GGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGA	2587
Query	3728	CCTTTACCTGGTTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTTCGCCCCGGCCCATTTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTCGCCCCGGCCCATTTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	2707
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGT	3907
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Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2768	GGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT	2827
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Query	4028	TGCTCCACCGGCAGCGGTAAGAGACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2888	TGCTCCACCGGCAGTGGAAGAGACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	3067
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
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Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
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Query	4388	TACCCCTCCGGGCTCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCACCTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	3307
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Sbjct	3308	CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	3366
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Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCA	4626
Sbjct	3427	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTATCCCGACCA	3486
Query	4627	GCGGCGATGTTGTCTGTCGTGTGCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487	GCGGCGATGTTGTCTGTCGTGTGCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAACCTTGACCCTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAACCTTGACCCTA	3606
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Sbjct	3607	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	3666
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Sbjct	3667	GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	3726
Query	4867	CCGGCATGTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
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Sbjct	3787	AGCTCATGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
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Sbjct	3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCCATATAG	3906
Query	5047	ATGCCCACCTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACCTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCTTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	3967	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGA	4026
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
Query	5227	GCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	4087	GCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	4146
Query	5287	TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCTG	5346
Sbjct	4147	TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCTG	4206
Query	5347	CTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	4207	CTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGTCTTGT	4266
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATGAGATGG	5466
Sbjct	4267	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTTCGATGAGATGG	4326

Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	4387	AGCAGAAAGGCCCTCGGCCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	4506
Query	5647	TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	4507	TCAGTGGGATAACAATAATTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	5766
Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	4626
Query	5767	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4627	TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACCGCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4687	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	4746
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCTCGC	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCG	4926
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	4986
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	6186
Sbjct	4987	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	5046
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	5047	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA	5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366
Sbjct	5167	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	5227	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	5347	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	5406
Query	6547	CCTGTACTCCCCTTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCTGTACTCCCCTTCTGCGCCGAACATAAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	5466

Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTGAGAG	6786
Sbjct	5587	GCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTGAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	5766
Query	6907	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	5767	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	5826
Query	6967	CATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGACCCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTTGGCAGAGGAGGATGAGCGGGAGGTCT	6006
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCGTCTGGG	7206
Sbjct	6007	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCGTTTGGG	6066
Query	7207	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266
Sbjct	6067	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	6126
Query	7267	CTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGA	7326
Sbjct	6127	CTGTGGTCCATGGCTGCCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGA	6186
Query	7327	AAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	6187	AAAAGCGTACGGTGGTCTCTACCGAATCAACCCTACCTACTGCCTTGGCCGAGCTTGCCA	6246
Query	7387	CCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCT	7446
Sbjct	6247	CCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	6306
Query	7447	CTGAGCCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCATGC	7506
Sbjct	6307	CTGAGCCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTTCCATGC	6366
Query	7507	CCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTGATGGTCGACGGTCA	7566
Sbjct	6367	CCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTTACGCGACGGGTGATGGTCGACGGTCA	6426
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAGGCG	7626
Sbjct	6427	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCTGGACAGGCG	6486
Query	7627	CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	6487	CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT	6546
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	6547	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	6606

Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	6607	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	6666
Query	7807	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	6667	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	6726
Query	7867	GCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCC	7926
Sbjct	6727	GCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCC	6786
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	7986
Sbjct	6787	GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	6846
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	8046
Sbjct	6847	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	6906
Query	8047	CTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCTCCCGACCTGGGCGTGC	8106
Sbjct	6907	CTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCTGTTCCTCCCGACCTGGGCGTGC	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTGATGGGAA	7026
Query	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCGTGGA	8226
Sbjct	7027	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCGTGGA	7086
Query	8227	AGTCCAAGAAGACCCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	7087	AGTCCAAGAAGACCCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	7147	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	7206
Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406
Sbjct	7207	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	7266
Query	8407	CAAGGGGGGAAAACATGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAGCT	8466
Sbjct	7267	CAAGGGGGGAAAACATGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAACCTAGCT	7326
Query	8467	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCGTGTCGAGCCGCAGGGCTCC	8526
Sbjct	7327	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCGCAGGGCTCC	7386
Query	8527	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGC	8586
Sbjct	7387	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGC	7446
Query	8587	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	8646
Sbjct	7447	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCG	7506
Query	8647	ccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	8706
Sbjct	7507	CCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	7566
Query	8707	ACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	7567	ACGTGTCAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACCCGTGACCCTA	7626
Query	8767	CAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGC	8826
Sbjct	7627	CAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	8886
Sbjct	7687	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	7746

Query	8887	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG	8946
Sbjct	7747	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG	7806
Query	8947	GAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	9006
Sbjct	7807	CAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	7866
Query	9007	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	9066
Sbjct	7867	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGGCCGCATGCC	7926
Query	9067	TCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG	9126
Sbjct	7927	TCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG	7986
Query	9127	CTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	9186
Sbjct	7987	CTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	8046
Query	9187	CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG	9246
Sbjct	8047	CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG	8106
Query	9247	GTTGGTTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC	9306
Sbjct	8107	GTTGGTTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC	8166
Query	9307	CCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC	9366
Sbjct	8167	CCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC	8226
Query	9367	CCAACCGATGA-AGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT-CCTGtttttttt	9424
Sbjct	8227	CCAACCGGTGACA--TT----TCC-CTTTTTTTTTTTTTTTTTTTTTTTTCCC-TTTTTT	8278
Query	9425	tt	9484
Sbjct	8279	TTTTTTTTTTTTTTTTTTTTTTT-TTTTTTTTTTTCCTT--TT-CCTTCTTTTTTCCCTTTC	8334
Query	9485	tttt--ttttttttttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG	9542
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Query	9543	GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	8395	GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	8451

Score = 1062 bits (575), Expect = 0.0
Identities = 584/588 (99%), Gaps = 2/588 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT	59
Sbjct	1	GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT	59
Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Query	120	cccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	GGACGACCGGGTCTTTCTTGGATAAACCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	239
Sbjct	180	GGACGACCGGGTCTTTCTTGGATAAACCGCTCAATGCCTGGAGATTGGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCTTGTGGTACTGCCTGATAG	299
Query	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGACCATGAGCACGAATCCTAAA	359

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Sbjct  300  GGTGCTTGCAGGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA  359
Query   360  CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGGGT  419
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Sbjct  360  CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTTCGAGTTCCCGGGT  419
Query   420  GGCGGTTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG  479
      |||
Sbjct  420  GGCGGTTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG  479
Query   480  CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCC  539
      |||
Sbjct  480  CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGTGGTAGACGTCAGCCTATCCCC  539
Query   540  AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT  587
      |||
Sbjct  540  AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT  587

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>emb|AX663429.1| Sequence 3 from Patent WO02088338
Length=8451

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.208e+04 bits (6542), Expect = 0.0
Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
Strand=Plus/Plus

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Query   2769  CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAAATGGCGCTG  2828
      |||
Sbjct  1629  CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTAAATGGCGCTG  1688
Query   2829  ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT  2888
      |||
Sbjct  1689  ACTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT  1748
Query   2889  CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCCGGGGGGGG  2948
      |||
Sbjct  1749  CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCTCAACGTCCGGGGGGGG  1808
Query   2949  CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC  3008
      |||
Sbjct  1809  CGCGATGCCGTCATCTTACTCATGTGTGTGTGTACACCCGACTCTGGTATTTGACATCACC  1868
Query   3009  AAATACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC  3068
      |||
Sbjct  1869  AAATACTCCTGGCCATCTTCGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC  1928
Query   3069  CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC  3127
      |||
Sbjct  1929  CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C  1987
Query   3128  CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT  3187
      |||
Sbjct  1988  CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT  2047
Query   3188  GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT  3247
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Sbjct  2048  GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT  2107
Query   3248  GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA  3307
      |||
Sbjct  2108  GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA  2167
Query   3308  TACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA  3367
      |||
Sbjct  2168  TACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA  2227
Query   3368  GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT  3427
      |||
Sbjct  2228  GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT  2287
Query   3428  CACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG  3487
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Sbjct	2288	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	2528	GGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGA	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTTCGCCCCGGCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTCGCCCCGGCCATTTCCTACCTAAAAGGCTCCTCGGGGGGTCCGCT	2707
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTACGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2708	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTACGGGCCGCGGTGTGCACCCGTGGAGT	2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2768	GGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT	2827
Query	3968	G TTCACGGACAAC TCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	4027
Sbjct	2828	G TTCACGGACAAC TCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	2887
Query	4028	TGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTA	4087
Sbjct	2888	TGCTCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	3067
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	3128	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	3187
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	3188	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGC	3247
Query	4388	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	3307
Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	3308	CACCGGAGAGATCCC-TTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	3366
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCA	4626

Sbjct	3427	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTCATCCCGACCA	3486
Query	4627	GCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487		3546
Query	4687	GCGGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4746
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Query	4747		4806
Sbjct	3607	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	3666
Query	4807		4866
Sbjct	3667	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCCT	3726
Query	4867		4926
Sbjct	3727	GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCCT	3786
Query	4927	CCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4986
Sbjct	3787		3846
Query	4987	AGCTCAGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	5046
Sbjct	3847		3906
Query	5047	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	5106
Sbjct	3907	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAG	3966
Query	5107		5166
Sbjct	3967	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCATATAG	4026
Query	5167	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGT	5226
Sbjct	4027		4086
Query	5227	ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGT	5286
Sbjct	4087		4146
Query	5287	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5346
Sbjct	4147		4206
Query	5347	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5406
Sbjct	4207	AGTGTTTGTATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4266
Query	5407		5466
Sbjct	4267	AGTGTTTGTATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4326
Query	5467	GCGCTGTTTCAAGTGAAGTCACCCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5526
Sbjct	4327		4386
Query	5527	GCGCTGTTTCAAGTGAAGTCACCCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5586
Sbjct	4387		4446
Query	5587	TGTCGGCCGACCTGGAGGTTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTG	5646
Sbjct	4447		4506
Query	5647	TGTCGGCCGACCTGGAGGTTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTG	5706
Sbjct	4507		4566
Query	5707	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5766
Sbjct	4507	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	4566
Query	5707	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	5766
Sbjct	4447	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	4506
Query	5647	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5706
Sbjct	4507		4566
Query	5707	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5766
Sbjct	4447		4506
Query	5647	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5706
Sbjct	4507		4566
Query	5707	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5766
Sbjct	4447		4506
Query	5647	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5706
Sbjct	4507		4566
Query	5707	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	5766
Sbjct	4447		4506
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	4507		4566
Query	5707	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5766
Sbjct	4507		4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACCAGCCACTAACCCTGGCCAAACCCTCCTCT	5766
Sbjct	4507		4566

Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCAAACCCTCCTCT	4626
Query	5767	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4627	TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACCGCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4687	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	4746
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCTCGC	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGG	4926
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	4986
Query	6127	TTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	6186
Sbjct	4987	TTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	5046
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	5047	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA	5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366
Sbjct	5167	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	5227	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	5347	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	5406
Query	6547	CCTGTACTCCCTTCCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCTGTACTCCCTTCCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	5466
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTACAGAATTGGACGGGGTGC	5586
Query	6727	GCCTACACAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	6786
Sbjct	5587	GCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACC GGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTGCGAATTACCTTGCGAGCCCGAACC GGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906

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Sbjct	6847	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	6906
Query	8047	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCG	8106
Sbjct	6907	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCTGGGCGTGCGCG	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTGATGGGAA	7026
Query	8167	GCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAAGCGTGGA	8226
Sbjct	7027	GCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTGTGCAAGCGTGGA	7086
Query	8227	AGTCCAAGAAGACCCCAGTGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	7087	AGTCCAAGAAGACCCCAGTGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	7147	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	7206
Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406
Sbjct	7207	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	7266
Query	8407	CAAGGGGGGAAAAC TGCGGCTACCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCT	8466
Sbjct	7267	CAAGGGGGGAAAAC TGCGGCTATCGCAGGTGCCGCGCAGCGGCGTACTGACAAC TAGCT	7326
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Sbjct	7327	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCGCAGGGCTCC	7386
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Sbjct	7387	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGG	7446
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Sbjct	7447	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTACGGAGGCTATGACCAGGTACTCCGCCC	7506
Query	8647	ACCAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	8706
Sbjct	7507	ACCAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	7566
Query	8707	ACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	7567	ACGTGTCAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACCCGTGACCCTA	7626
Query	8767	CAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGC	8826
Sbjct	7627	CAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCTTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	8886
Sbjct	7687	TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	7746
Query	8887	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACG	8946
Sbjct	7747	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGTGTGAGATCTACG	7806
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Sbjct	7807	CAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	7866
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Sbjct	7867	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGGCCGCATGCC	7926
Query	9067	TCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCGTCCGCG	9126
Sbjct	7927	TCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCCCGGAGCGTCCGCG	7986
Query	9127	CTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	9186


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Sbjct  7987  CTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG  8046
Query  9187  CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG  9246
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Sbjct  8047  CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG  8106
Query  9247  GTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC  9306
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Sbjct  8107  GTTGGTTCACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC  8166
Query  9307  CCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC  9366
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Sbjct  8167  CCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC  8226
Query  9367  CCAACCGATGA-AGGTTGGGGTAAACACTCCGCCTCTTAAGCCATTT-CCTGttttttt  9424
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Query  9425  ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  9484
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Sbjct  8335  TCTTCCTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG  8394
Query  9543  GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT  9599
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Sbjct  8395  GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT  8451
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Score = 1062 bits (575), Expect = 0.0
Identities = 584/588 (99%), Gaps = 2/588 (0%)
Strand=Plus/Plus

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Query  1    GCCAGCCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT  59
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Sbjct  1    GCCAGCCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT  59
Query  60    GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA  119
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Sbjct  60    GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGA  119
Query  120    ttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt  179
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Sbjct  120    CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA  179
Query  180    GGACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC  239
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Sbjct  180    GGACGACCGGGTCCTTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC  239
Query  240    CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAG  299
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Sbjct  240    CGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGCAAAGGCCTTGTGGTACTGCCTGATAG  299
Query  300    GGTGCTTGCAGTGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA  359
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Sbjct  300    GGTGCTTGCAGTGTCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA  359
Query  360    CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT  419
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Sbjct  360    CCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT  419
Query  420    GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG  479
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Sbjct  420    GGCGGTCAGATCGTTGGTGGAGTTTACTTGTGTGCCGCGCAGGGGCCCTAGATTGGGTGTG  479
Query  480    CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGAGGTAGACGTCAGCCTATCCCC  539
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Sbjct  480    CGCGCGACGAGGAAGACTTCCGAGCGGTGCGAACCTCGTGGTAGACGTCAGCCTATCCCC  539
Query  540    AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT  587
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Sbjct  540    AAGGCACGTCGGCCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT  587
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>gb|EA372965.1| Sequence 1 from patent US 7314710
Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0
Identities = 6553/6611 (99%), Gaps = 4/6611 (0%)
Strand=Plus/Plus

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Sbjct	1	CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTG	60
Query	2829	ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT	2888
Sbjct	61	ACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT	120
Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTCCGGGGGGGG	2948
Sbjct	121	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCACACGTCCGGGGGGGG	180
Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	181	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACTCTGGTATTTGACATCACC	240
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	241	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	300
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	301	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	359
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	360	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	419
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Sbjct	420	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGT	479
Query	3248	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	480	GGCTGTGGAACCAAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	539
Query	3308	TACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	3367
Sbjct	540	TACCGCCGCGTGCAGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	599
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	600	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	659
Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	660	CACGGCGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	719
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	720	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	779
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	780	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	839
Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	3667
Sbjct	840	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	899
Query	3668	GGGCTGGCCCCGCTCCTCAAGGTTCCCCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	900	GGGCTGGCCCCGCTCCTCAAGGTTCCCCTCATTGACACCCTGCACCTGCGGCTCCTCGGA	959
Query	3728	CCTTTACCTGGTTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	960	CCTTTACCTGGTTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	1019
Query	3788	GGGTAGCCTGCTTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847

Sbjct	1020		GGGTAGCCTGCTTTT		GGCCCGGCCCATTT		TCCTACCTAAAAGGCTCCTCGGGGGGTCCGCT	1079
Query	3848		GTTGTGCCCCGCGGGACACGCCGTGGGCCTATT		CAGGGCCGCGGTGTGCACCCGTGGAGT			3907
Sbjct	1080		GTTGTGCCCCGCGGGACACGCCGTGGGCCTATT		CAGGGCCGCGGTGTGCACCCGTGGAGT			1139
Query	3908		GGCTAAAGCGGTGGACTTTTATCCCTGTGGAGAACCT		AGGGACAACCATGAGATCCCCGGT			3967
Sbjct	1140		GGCCAAGGCGGTGGACTTTTATCCCTGTGGAGAACCT		AGAGACAACCATGAGATCCCCGGT			1199
Query	3968		GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA					4027
Sbjct	1200		GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA					1259
Query	4028		TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA					4087
Sbjct	1260		TGCTCCCACCGGCAGTGGAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA					1319
Query	4088		CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC					4147
Sbjct	1320		CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC					1379
Query	4148		CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG					4207
Sbjct	1380		CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG					1439
Query	4208		CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC					4267
Sbjct	1440		CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC					1499
Query	4268		TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT					4327
Sbjct	1500		TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT					1559
Query	4328		CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC					4387
Sbjct	1560		CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGC					1619
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Sbjct	1620		TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC					1679
Query	4448		CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA					4506
Sbjct	1680		CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA					1738
Query	4507		GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG					4566
Sbjct	1739		GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG					1798
Query	4567		CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCA					4626
Sbjct	1799		CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTATCCCGACCA					1858
Query	4627		GCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG					4686
Sbjct	1859		GCGGCGATGTTGTCTGCTGTCTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG					1918
Query	4687		ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAACCTTGACCCTA					4746
Sbjct	1919		ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAACCTTGACCCTA					1978
Query	4747		CCTTTACCATTTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG					4806
Sbjct	1979		CCTTTACCATTTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG					2038
Query	4807		GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT					4866
Sbjct	2039		GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT					2098
Query	4867		CCGGCATGTTTCTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG					4926
Sbjct	2099		CCGGCATGTTTCTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG					2158
Query	4927		AGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC					4986

Sbjct	2159	CATGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	2218
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAG	5046
Sbjct	2219	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCCATATAG	2278
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	2279	ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	2338
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	2339	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGATGTGGA	2398
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	2399	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	2458
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	2459	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	2518
Query	5287	TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTCTGGCTG	5346
Sbjct	2519	TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTCTGGCTG	2578
Query	5347	CTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	2579	CTCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGTCTTGT	2638
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	2639	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	2698
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	2699	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	2758
Query	5527	AGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	2759	AGCAGAAGGCCCTCGGCCCTCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	2818
Query	5587	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	2819	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	2878
Query	5647	TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	2879	TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	2938
Query	5707	CATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	5766
Sbjct	2939	CATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	2998
Query	5767	TCAACATATTggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	2999	TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACCGCCT	3058
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	3059	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	3118
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	3119	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	3178
Query	5947	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTCGC	6006
Sbjct	3179	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCTCGC	3238
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGG	6066
Sbjct	3239	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGG	3298
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126

Sbjct	3299		GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	3358
Query	6127		TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	6186
Sbjct	3359		TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	3418
Query	6187		GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	3419		GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA	3478
Query	6247		CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	3479		CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	3538
Query	6307		GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366
Sbjct	3539		GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	3598
Query	6367		TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	3599		TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	3658
Query	6427		GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	3659		GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	3718
Query	6487		CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	3719		CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	3778
Query	6547		CCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	3779		CCTGTACTCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	3838
Query	6607		AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	3839		AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	3898
Query	6667		ATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	3899		ATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGTGC	3958
Query	6727		GCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTGAGAG	6786
Sbjct	3959		GCCTACATAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTGAGAG	4018
Query	6787		TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	4019		TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	4078
Query	6847		CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	4079		CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	4138
Query	6907		GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	4139		GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	4198
Query	6967		CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	4199		CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	4258
Query	7027		CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	4259		CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	4318
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Sbjct	4319		AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	4378
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Sbjct	4379		CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCCGTCTGGG	4438
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Sbjct	4439		CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	4498
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Sbjct	4499		CTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTCGGA	4558
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Sbjct	4559		AAAAGCGTACGGTGGTCTCTACCGAATCAACCCTACCTACTGCCTTGGCCGAGCTTGCCA	4618
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Sbjct	4619		CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	4678
Query	7447		CTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGC	7506
Sbjct	4679		CTGAGCCCGCCCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGC	4738
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Sbjct	4739		CCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTTACGCGACGGGTCATGGTCGACGGTCA	4798
Query	7567		GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	4799		GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCTGGACAGGCG	4858
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Sbjct	4859		CACTCGTCACCCCGTGCCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT	4918
Query	7687		CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	4919		CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	4978
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Sbjct	4979		AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	5038
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Sbjct	5039		AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	5098
Query	7867		GCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCC	7926
Sbjct	5099		GCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACGTCC	5158
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Sbjct	5159		GTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	5218
Query	7987		ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	8046
Sbjct	5219		ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	5278
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Sbjct	5279		CTGAGAAGGGGGTTCGTAAGCCAGCTCGTCTCATCGTGTTCCTCCCGACCTGGGCGTGC	5338
Query	8107		TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	5339		TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAAGCTCCCCCTGGCCGTGATGGGAA	5398
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Sbjct	5399		GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCTGCAAGCGTGGA	5458
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Sbjct	5459		AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	5518
Query	8287		CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	5519		CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	5578
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Sbjct  5579  |||||
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Query   8467  GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC 8526
Sbjct  5699  GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC 5758
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Sbjct  5759  AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGG 5818
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Sbjct  5879  CCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA 5938
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Sbjct  6059  TAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT 6118
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Sbjct  6479  GTTGGTTACAGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC 6538
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Sbjct  6539  CCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 6598
Query   9367  CCAACCGATGA 9377
Sbjct  6599  CCAACCGGTGA 6609
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>dbj|DD070076.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0

Strand=Plus/Plus

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Query	2829	ACTCTGTGCGCCATATTACAAGCGCTATATCAGCTGGTGCAATGTTGGCTTCAGTATTTT	2888
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Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCCGGGGGGGG	2948
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Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC	3008
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Sbjct	301	CCCTACTTCGTGCGCGTTCAAGGCCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	359
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Sbjct	420	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	479
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Sbjct	780	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	839
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Sbjct	840	CATCGCATACCCAAGGGTCCTGTATCCAGATGTATACCAATGTGGACCAAGACCTTGT	899
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Sbjct	900	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCTGTACCTGCGGCTCCTCGGA	959
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Query	3788	GGGTAGCCTGCTTTGCCCCGGCCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	1020	GGGTAGCCTGCTTTGCCCCGGCCCCATTTCCTACTTAAAGGCTCCTCGGGGGGTCCGCT	1079
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Sbjct	1140	GGCCAAGGCGGTGGACTTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT	1199
Query	3968	GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
Sbjct	1200	GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	1259
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Sbjct	1500	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	1559
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Sbjct	1560	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGATTGGTTGTGCTCGCCACTGC	1619
Query	4388	TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	1620	TACCCCTCCGGGCTCCGTCACGTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	1679
Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	1680	CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	1738
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	1739	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCACGAGCTCGCCGCGAAGCTGGTCG	1798
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTATCCCGACCA	4626
Sbjct	1799	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTATCCCGACCA	1858
Query	4627	GCGGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	1859	GCGGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	1918
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCCTA	4746
Sbjct	1919	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTCAGCCTTGACCCTA	1978
Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	1979	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	2038
Query	4807	GCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	2039	GCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	2098
Query	4867	CCGGCATGTTCTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	2099	CCGGCATGTTCTGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	2158
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Sbjct	2159	AGCTCATGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	2218
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAG	5046

Sbjct	2219		CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCCATATAG	2278
Query	5047		ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	2279		ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	2338
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Sbjct	2339		ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGA	2398
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Sbjct	2399		AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	2458
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Sbjct	2459		GCGCTGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	2518
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Sbjct	2519		TGTCGGCCGACCTGGAGGTCGTACGAGCACCTGGGTGCTCGTTGGCGGCGTCTCTGGCTG	2578
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Sbjct	2579		CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGTCTTGT	2638
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Sbjct	2639		CCGGGAAGCCGGCAATTATACCTGACAGGGAGTTTCTCTACCAGGAGTTCGATGAGATGG	2698
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Sbjct	2699		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	2758
Query	5527		AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	2759		AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCTCCCGCCATGCAGAGGTTATCACCCCTG	2818
Query	5587		CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	2819		CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	2878
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Sbjct	2879		TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	2938
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Sbjct	2939		CATTGATGGCTTTTACAGCTGCCGTACCCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	2998
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Sbjct	2999		TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACCGCCT	3058
Query	5827		TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	3059		TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	3118
Query	5887		TGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGCTAGCATTCAAGATCA	5946
Sbjct	3119		TGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGCTAGCATTCAAGATCA	3178
Query	5947		TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTCGC	6006
Sbjct	3179		TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCTCGC	3238
Query	6007		CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGG	6066
Sbjct	3239		CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCGG	3298
Query	6067		GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	3299		GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	3358
Query	6127		TTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCA	6186

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Query	6187		GCAGCCT	CACTG	TAAACC	CAGCTC	CTGAG	GCGACT	GCATC	AGTGG	ATAAG	CTCGG	AGTGT	A	6246
Sbjct	3419		GCAGCCT	CACTG	TAAACC	CAGCTC	CTGAG	GCGACT	TACAT	CAGTGG	ATAAG	CTCGG	AGTGT	A	3478
Query	6247		CCACTCC	ATGCT	CCGGT	TCTGG	CTAAG	GGACAT	CTGGG	ACTGG	ATATG	CGAGG	TGCTG	A	6306
Sbjct	3479		CCACTCC	ATGCT	CCGGT	TCTGG	CTAAG	GGACAT	CTGGG	ACTGG	ATATG	CGAGG	TGCTG	A	3538
Query	6307		GCGACTT	TAAAG	ACCTG	GCTGAA	AGCCA	AGCTCA	TGCCA	CAACTG	CCTGG	GATTCC	CTTTG		6366
Sbjct	3539		GCGACTT	TAAAG	ACCTG	GCTGAA	AGCCA	AGCTCA	TGCCA	CAACTG	CCTGG	GATTCC	CTTTG		3598
Query	6367		TGTCCTG	CCAGC	GCGGG	TATAG	GGGGG	TCTGG	CGAGG	AGACGG	CATTAT	GCACAC	TCGCT		6426
Sbjct	3599		TGTCCTG	CCAGC	GCGGG	TATAG	GGGGG	TCTGG	CGAGG	AGACGG	CATTAT	GCACAC	TCGCT		3658
Query	6427		GCCACTG	TGGAG	CTGAG	ATCACT	TGGAC	ATGTCA	AAAA	ACGGG	ACGATG	AGGATC	GTCCG	TTC	6486
Sbjct	3659		GCCACTG	TGGAG	CTGAG	ATCACT	TGGAC	ATGTCA	AAAA	ACGGG	ACGATG	AGGATC	GTCCG	TTC	3718
Query	6487		CTAGGAC	CTGC	AGGAAC	ATGTGG	AGTGGG	ACGTTCC	CCATT	AACGC	CTACAC	CACGGG	CC		6546
Sbjct	3719		CTAGGAC	CTGC	AGGAAC	ATGTGG	AGTGGG	ACGTTCC	CCATT	AACGC	CTACAC	CACGGG	CC		3778
Query	6547		CCTGTAC	TCCCC	TTCCTG	CGCCGA	ACTATA	AGTTCG	CGCTGT	GGAGG	TGTCTG	CAGAGG			6606
Sbjct	3779		CCTGTAC	TCCCC	TTCCTG	CGCCGA	ACTATA	AGTTCG	CGCTGT	GGAGG	TGTCTG	CAGAGG			3838
Query	6607		AATACGT	GAGATA	AAGG	CGGGT	GGGGG	ACTTCCA	CTACG	TATCGG	TATGAC	TACTG	A		6666
Sbjct	3839		AATACGT	GAGATA	AAGG	CGGGT	GGGGG	ACTTCCA	CTACG	TATCGG	TATGAC	TACTG	A		3898
Query	6667		ATCTTAA	ATGCC	CGTGCC	AGATCCC	ATCGCC	CGAATTT	TTTCA	CAGAAT	TGGAC	GGGGT	G		6726
Sbjct	3899		ATCTTAA	ATGCC	CGTGCC	AGATCCC	ATCGCC	CGAATTT	TTTCA	CAGAAT	TGGAC	GGGGT	G		3958
Query	6727		GCCTAC	ACAGG	TTTGC	GCCCC	CTTGCA	AGCCCT	TGCTGC	GGGAG	GAGGTAT	CATTCA	GAG		6786
Sbjct	3959		GCCTAC	ATAGG	TTTGC	GCCCC	CTTGCA	AGCCCT	TGCTGC	GGGAG	GAGGTAT	CATTCA	GAG		4018
Query	6787		TAGGACT	CCACG	AGTAC	CCGGT	GGGGT	CGCAAT	TACCTT	GCGAG	CCCGA	ACCGG	ACGTAG		6846
Sbjct	4019		TAGGACT	CCACG	AGTAC	CCGGT	GGGGT	CGCAAT	TACCTT	GCGAG	CCCGA	ACCGG	ACGTAG		4078
Query	6847		CCGTGTT	GACGT	CCATG	CTCACT	GATCCC	TCCCAT	ATAAC	AGCAG	AGGCGG	CCGGG	GAGAA		6906
Sbjct	4079		CCGTGTT	GACGT	CCATG	CTCACT	GATCCC	TCCCAT	ATAAC	AGCAG	AGGCGG	CCGGG	GAGAA		4138
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Sbjct	4139		GGTTGG	CGAG	AGGGT	CACCC	CTTCTAT	GGCCAG	CTCCTC	GGCCAG	CCAGCT	GTCCG	CTC		4198
Query	6967		CATCTCT	CAAGG	CAACTT	GCACCG	CCAAC	CATGAC	TCCC	CTGAC	GCCGAG	CTCAT	AGAGG		7026
Sbjct	4199		CATCTCT	CAAGG	CAACTT	GCACCG	CCAAC	CATGAC	TCCC	CTGAC	GCCGAG	CTCAT	AGAGG		4258
Query	7027		CTAACCT	CCTGT	GAGGC	AGGAG	ATGGG	CGGCA	ACATC	ACCAGG	GTTGAG	TCAGAG	AACA		7086
Sbjct	4259		CTAACCT	CCTGT	GAGGC	AGGAG	ATGGG	CGGCA	ACATC	ACCAGG	GTTGAG	TCAGAG	AACA		4318
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Sbjct	4319		AAGTGG	TGATT	TCTGG	ACTCCT	TCGAT	CCGCTT	TGTGG	CAGAG	GAGGAT	GAGCGG	GAGGTCT		4378
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Sbjct	4379		CCGTACC	CTGC	AGAAAT	TTCG	CGGAAG	TCCTGG	AGATT	CGCCC	GGGCC	CTGCC	CTTGGG		4438
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Sbjct	4439		CGCGG	CCGG	ACTACA	ACCCCC	CGCTAG	TAGAG	ACGTGG	AAAA	AGCCTG	ACTAC	GAAACC	AC	4498
Query	7267		CTGTGG	TCCAT	GCTG	CCCG	CTAC	CACCTC	CACGG	TCCC	CTCCTG	TGCCTC	CGCCTC	GGA	7326

Sbjct	4499	CTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	4558
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Sbjct	4559	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTACTGCCTTGCCCGAGCTTGCCA	4618
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Sbjct	4859	CACTCGTCACCCCGTGCGCTGCGGAAGAACA meta ACTGCCCATCAACGCACTGAGCAA	4918
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Sbjct	4919	CGTTGCTACGCCATCACAATCTGGTATATTCCACCAC TTCACGCAGTGCTTGCCAAAGGC	4978
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Sbjct	5219	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAG AACGAGGTC TTCTGCGTT CAGC	5278
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Sbjct	5279	CTGAGAAGGGGGGT CGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGC	5338
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Sbjct	5399	GCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGA ATT CCTCGTGCAAGCGTGGA	5458
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Sbjct	5459	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCC GCTGTTTTGACTCCACAGTCA	5518
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Query 9367 |CCAACCGATGA 9377
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Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0
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Sbjct	301		CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	359
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Sbjct	480		GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	539
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Sbjct	660		CACGGCGTACGCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	719
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Query  9067  TCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG 9126
Sbjct  6299  TCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG 6358
Query  9127  CTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG 9186
Sbjct  6359  CTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG 6418
Query  9187  CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG 9246
Sbjct  6419  CAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG 6478
Query  9247  GTTGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC 9306
Sbjct  6479  GTTGTTTACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC 6538
Query  9307  CCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 9366
Sbjct  6539  CCCGCTGGTTCTGGTTTTTGCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC 6598
Query  9367  CCAACCGATGA 9377
Sbjct  6599  CCAACCGGTGA 6609

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>dbj|DI052976.1| Hepatitis C virus epitope
Length=7310

Score = 1.170e+04 bits (6335), Expect = 0.0
Identities = 6992/7317 (95%), Gaps = 14/7317 (0%)
Strand=Plus/Plus

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Query  1690  CAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGGCCAGGGCTGGG 1749
Sbjct  1       CAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGAACAGGGCTGGG 60
Query  1750  GTCCTATCAGTTATGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACC 1809

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Sbjct	61	GCCCTATCAGTTATGCCAACGGAAGCGGCCCGACCAGCGCCCTACTGCTGGCACTACC	120
Query	1810	CTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCA	1869
Sbjct	121	CCCCAAAACCTTGCGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCA	180
Query	1870	CTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTACAGCTGGG	1929
Sbjct	181	CTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCACCTACAGCTGGG	240
Query	1930	GTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCCTGGGCAATTGGT	1989
Sbjct	241	GTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCCTGGGCAATTGGT	300
Query	1990	TCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTG	2049
Sbjct	301	TCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTG	360
Query	2050	TCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAACATC	2109
Sbjct	361	TCATCGGAGGGGCGGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATC	420
Query	2110	CGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACCCAGGTGCATGGTCG	2169
Sbjct	421	CGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACCCAGGTGCCTGGTCG	480
Query	2170	ACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCA	2229
Sbjct	481	ACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAATCA	540
Query	2230	GGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCGTGCAACTGGACGCGGGGCG	2289
Sbjct	541	GGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCG	600
Query	2290	AACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCA	2349
Sbjct	601	AACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTA	660
Query	2350	CACAGTGGCAGGTCCCTCCCGTGTTCCTTACGACCCCTGCCAGCCTTGCTCCACCGGCCTCA	2409
Sbjct	661	CACAGTGGCAGGTCCCTCCCGTGTTCCTTACAAACCCTACCAGCCTTGCTCCACCGGCCTCA	720
Query	2410	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	2469
Sbjct	721	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCG	780
Query	2470	CGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGC	2529
Sbjct	781	CGTCTCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGC	840
Query	2530	GCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	2589
Sbjct	841	GCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	900
Query	2590	ACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCG	2649
Sbjct	901	ACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCG	960
Query	2650	TGTTCTTCTGCTTTTGCCTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCC	2709
Sbjct	961	TGTTCTTCTGCTTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCT	1020
Query	2710	TCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCAC	2769
Sbjct	1021	TCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGC	1080
Query	2770	TGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTGCGGGTTAATGGCGCTGA	2829
Sbjct	1081	TGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGA	1140
Query	2830	CTCTGTGCGCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTC	2889
Sbjct	1141	CTCTGTCAACCATATTACAAGCGCTATATCAGCTGGTGCCTTGTGGTGGCTTCAGTATTTTC	1200
Query	2890	TGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCCGGGGGGGCG	2949

Sbjct	1201		TGACCAGAGTGGGAAGCGCAACTGCACGTGTGGATTCCCCCCCCTCAACGTCCGAGGGGGGGC	1260
Query	2950		GCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	1261		GCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACC	1319
Query	3009		AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	1320		AAATTGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTA	1379
Query	3069		CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1380		CCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC	1439
Query	3128		CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	1440		-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGT	1498
Query	3188		GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGT	3247
Sbjct	1499		TTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGT	1558
Query	3248		GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	1559		GGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	1618
Query	3308		TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	3367
Sbjct	1619		TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGA	1678
Query	3368		GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	1679		GATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	1738
Query	3428		CACGGCGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	1739		CACGGCGTACGCCCAGCAGACAAGGGGCCCTCTAGGGTGCATAATCACCAGCCTAACTGG	1798
Query	3488		CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	1799		CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTT	1858
Query	3548		CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	1859		CCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	1918
Query	3608		CATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	3667
Sbjct	1919		CATCGCGTCACCCAAGGGTCTGTGCATCCAGATGTATAACCAATGTAGACCAAGACCTTGT	1978
Query	3668		GGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	1979		GGGCTGGCCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGA	2038
Query	3728		CCTTTACCTGGTACAGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2039		CCTTTACCTGGTACAGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAG	2098
Query	3788		GGGTAGCCTGCTTTTCGCCCCGGCCCATTTCCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2099		GGGCAGCCTGCTGTTCGCCCCGGCCCATTTCCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	2158
Query	3848		GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2159		GTTGTGCCCCGCGGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGT	2218
Query	3908		GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2219		GGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGT	2278
Query	3968		GTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	4027
Sbjct	2279		GTTACGGATAACTCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCA	2338
Query	4028		TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087

Sbjct	2339	 TGCTCCACAGGCAGCGGCAAAAGCACCAAGGTCCC	2398
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2399	TAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTC	2458
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	2459	CAAGGTCTATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	2518
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	2519	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGC	2578
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	2579	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	2638
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	2639	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGC	2698
Query	4388	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	2699	CACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	2758
Query	4448	CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAG	4507
Sbjct	2759	CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAG	2818
Query	4508	ACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGC	4567
Sbjct	2819	ACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACCTCGCCGCAAAGCTGGTCGC	2878
Query	4568	ATTGGGCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGTCTGTCATCCCGACCAG	4627
Sbjct	2879	ATTGGGCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGTCCGTCAATCCCGACCAG	2938
Query	4628	CGGCGATGTTGTCGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGA	4687
Sbjct	2939	CGGCGATGTTGTCGTCTGTGTCGACCGATGCCCTCATGACCGGCTATAACCGGCGACTTCGA	2998
Query	4688	CTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCCTAC	4747
Sbjct	2999	CTCGGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCCTAC	3058
Query	4748	CTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGG	4807
Sbjct	3059	CTTCACCATTTAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGG	3118
Query	4808	CAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGGAGCGCCCCCTC	4867
Sbjct	3119	CAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGGAGCGCCCCCTC	3178
Query	4868	CGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	4927
Sbjct	3179	CGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	3238
Query	4928	GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	4987
Sbjct	3239	GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	3298
Query	4988	CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGA	5047
Sbjct	3299	CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGA	3358
Query	5048	TGCCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTA	5107
Sbjct	3359	TGCCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTA	3418
Query	5108	CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAA	5167
Sbjct	3419	CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAA	3478
Query	5168	GTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	5227

Sbjct	3479		GTGTTTGATTTCGCCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	3538
Query	5228		CGCTGTTTCAGAAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCAT	5287
Sbjct	3539		CGCTGTTTCAGAAATGAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCAT	3598
Query	5288		GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	5347
Sbjct	3599		GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	3658
Query	5348		TCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTC	5407
Sbjct	3659		TTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTC	3718
Query	5408		CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGG	5466
Sbjct	3719		CGGGAAGCCGGCAATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGG	3777
Query	5467		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	3778		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCA	3837
Query	5527		AGCAGAAAGGCCCTCGGCCCTCTGCGAGACCGCTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	3838		AGCAGAAAGGCCCTCGGCCCTCTGCGAGACCGCTCCCGCTCAGGCAGAGGTTATCGCCCCTG	3897
Query	5587		CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	3898		CTGTCCAGACCAACTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAATTTCA	3957
Query	5647		TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	3958		TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4017
Query	5707		CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCTCCTCT	5766
Sbjct	4018		CATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCTCCTCT	4077
Query	5767		TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4078		TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	4137
Query	5827		TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4138		TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCA	4197
Query	5887		TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4198		TAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCA	4257
Query	5947		TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTCGC	6006
Sbjct	4258		TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCCGCCATCCTCTCGC	4317
Query	6007		CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCG	6066
Sbjct	4318		CCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCCG	4377
Query	6067		GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4378		GCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATG	4437
Query	6127		TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCA	6186
Sbjct	4438		TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCTCACTGCCATACTCA	4497
Query	6187		GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	4498		GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTA	4557
Query	6247		CCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	4558		CCACTCCATGCTCCGGTTCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGA	4617
Query	6307		GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366

Sbjct	4618		GCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTG	4677
Query	6367		TGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	6425
Sbjct	4678		TGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGC	4736
Query	6426		TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	6485
Sbjct	4737		TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	4796
Query	6486		CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGC	6545
Sbjct	4797		CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAATGCCTACACCACGGGC	4856
Query	6546		CCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAG	6605
Sbjct	4857		CCCTGTACCCCCCTTCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTGTCTGCAGAG	4916
Query	6606		GAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA	6664
Sbjct	4917		GAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGA	4975
Query	6665		CAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	4976		CAATCTCAAATGCCCCGTGCCAGGTCCCATCGCCCCGAATTTTTCACAGAATTGGACGGGGT	5035
Query	6725		GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	5036		GCGCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	5095
Query	6785		AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	5096		AGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	5155
Query	6845		AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	5156		GGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCG	5215
Query	6905		AAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCG	6963
Sbjct	5216		AAGGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCG	5274
Query	6964		CTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAG	7023
Sbjct	5275		CTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAG	5334
Query	7024		AGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGA	7083
Sbjct	5335		AGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAA	5394
Query	7084		ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGG	7143
Sbjct	5395		ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGA	5454
Query	7144		TCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGCCCGTCT	7203
Sbjct	5455		TCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCCAGGCCCTGCCCGTTT	5514
Query	7204		GGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAAC	7263
Sbjct	5515		GGGCGCGGCCGGACTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCCGACTACGAAC	5574
Query	7264		CACCTGTGGTCCATGGCTGCCCCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTC	7323
Sbjct	5575		CACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCCTCCTGTGCCTCCGCCTC	5634
Query	7324		GGAAAAAGCGTACGGTGGTCTCACC GAATCAACCCTATCTACTGCCTTGGCCGAGCTTG	7383
Sbjct	5635		GGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCG	5694
Query	7384		CCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT	7443
Sbjct	5695		CCACCAGAAGCTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT	5754
Query	7444		CCTCTGAGCCCGCCCCCTTCTGGCTGGGGGGACTCCGACGTTGAGTCCTATTCTTCCA	7503

Sbjct	5755		CCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGCTGAGTCCTATTCCTCCA	5814
Query	7504	TG	-----TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGG	7563
Sbjct	5815	TG	-----TGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGG	5874
Query	7564	TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAG	7623	
Sbjct	5875	TCAGTAGT	GAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAG	5934
Query	7624	GCGCACTCGTCACCCCGTGCGCTGCGGAAGAACA	AAAACTGCCCATCAACGCACTGAGCA	7683
Sbjct	5935	GCGCACTCGTCACCCCGTGCGCGCGGAAGAACA	GAAACTGCCCATCAATGCACTAAGCA	5994
Query	7684	ACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAA	7743	
Sbjct	5995	ACTCGTTGCTACGTCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAA	6054	
Query	7744	GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGC	7803	
Sbjct	6055	GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTAC	6114	
Query	7804	TCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	7863	
Sbjct	6115	TCAAGGAGGTTAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	6174	
Query	7864	CTTGACGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACG	7923	
Sbjct	6175	CTTGACGCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACG	6234	
Query	7924	TCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGG	7983	
Sbjct	6235	TCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGG	6294	
Query	7984	AAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTC	8043	
Sbjct	6295	AAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTC	6354	
Query	8044	AGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTC	CCCCGACCTGGGCGTGC	8103
Sbjct	6355	AGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTC	CCCCGATCTGGGCGTGC	6414
Query	8104	GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA	-GCTCCCCCTGGCCGTGATG	8162
Sbjct	6415	GCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA	-CAAAGCTCCCCCTGGCCGTGATG	6473
Query	8163	GGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCG	8222	
Sbjct	6474	GGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCG	6533	
Query	8223	TGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACA	8282	
Sbjct	6534	TGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACA	6593	
Query	8283	GTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC	8342	
Sbjct	6594	GTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCC	6653	
Query	8343	CAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACC	8402	
Sbjct	6654	CAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACC	6713	
Query	8403	AATTCAAGGGGGGAAACTGCGGCTACCGCAGGTGCCGCGGAGCGGCGTACTGACAACT	8462	
Sbjct	6714	AATTCAAGGGGGGAGAAGTACCGGCTATCGCAGGTGCCGCGGAGCGGCGTACTGACAACT	6773	
Query	8463	AGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGG	8522	
Sbjct	6774	AGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGG	6833	
Query	8523	CTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCG	8582	
Sbjct	6834	CTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCG	6893	
Query	8583	GGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCC	8642	

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Sbjct	601	AACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTA	660
Query	2350	CACAGTGGCAGGTCCCTTCCGTGTTCTTTACGACCCTGCCAGCCTTGTCACCGGCCTCA	2409
Sbjct	661	CACAGTGGCAGGTCCCTCCCGTGTTCTTACAAACCCTACCAGCCTTGTCACCGGCCTCA	720
Query	2410	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	2469
Sbjct	721	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCG	780
Query	2470	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGC	2529
Sbjct	781	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGC	840
Query	2530	GCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	2589
Sbjct	841	GCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	900
Query	2590	ACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCG	2649
Sbjct	901	ACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCG	960
Query	2650	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGAGCGGTCTACGCC	2709
Sbjct	961	TGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGAGCGGTCTACACCT	1020
Query	2710	TCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCAC	2769
Sbjct	1021	TCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCACAGCGGGCGTACGCGC	1080
Query	2770	TGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGA	2829
Sbjct	1081	TGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTCTGTCGGGTTGATGGCGCTGA	1140
Query	2830	CTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTC	2889
Sbjct	1141	CTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCCTGTGGTGGCTTCAGTATTTTC	1200
Query	2890	TGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTTCAACGTCCGAGGGGGGC	2949
Sbjct	1201	TGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCTCAACGTCCGAGGGGGGC	1260
Query	2950	GCGATGCCGTCACTTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	1261	GCGACGCCGTCACTTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACC	1319
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	1320	AAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTA	1379
Query	3069	CCCTACTTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1380	CCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCGTGCGCGTTAGCGCGGAAGATGATC	1439
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	1440	-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGT	1498
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	3247
Sbjct	1499	TTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCCTGCGAGATCTGGCCGT	1558
Query	3248	GGCTGTGGAACAGTCGTCTTCTCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	1559	GGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	1618
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGA	3367
Sbjct	1619	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCTTCCGCCCGCAGGGGGCCGGGA	1678
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	1679	GATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	1738
Query	3428	CACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487

Sbjct	1739		CACGGCGTACGCCAGCAGACAAGGGGCTCTAGGGTGCATAATCACCAGCCTAACTGG	1798
Query	3488		CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	1799		CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTT	1858
Query	3548		CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	1859		CCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	1918
Query	3608		CATCGCATCACCCAAGGGTCTGTGCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	3667
Sbjct	1919		CATCGCGTCACCCAAGGGTCTGTGCATCCAGATGTATAACCAATGTAGACCAAGACCTTGT	1978
Query	3668		GGGCTGGCCCCGCTCCTCAAGGTTCCTGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	1979		GGGCTGGCCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCAGGCTCCTCGGA	2038
Query	3728		CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2039		CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAG	2098
Query	3788		GGGTAGCCTGCTTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2099		GGGCAGCCTGCTGTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	2158
Query	3848		GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2159		GTTGTGCCCCGCGGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGT	2218
Query	3908		GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2219		GGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGT	2278
Query	3968		GTTACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	4027
Sbjct	2279		GTTACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCA	2338
Query	4028		TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCAGGGCTA	4087
Sbjct	2339		TGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTA	2398
Query	4088		CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2399		TAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTC	2458
Query	4148		CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	2459		CAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	2518
Query	4208		CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	2519		CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGC	2578
Query	4268		TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	2579		TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	2638
Query	4328		CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	2639		CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGC	2698
Query	4388		TACCCCTCCGGGCTCCGTCACGTGTGTCCTTACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	2699		CACCCCTCCGGGCTCCGTCACGTGTGTCCTTACATCGAGGAGGTTGCTCTGTCCAC	2758
Query	4448		CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAG	4507
Sbjct	2759		CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAG	2818
Query	4508		ACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGC	4567
Sbjct	2819		ACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACCTCGCCGCGAAGCTGGTCGC	2878
Query	4568		ATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCAATCCCGACCAG	4627

Sbjct	2879		ATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCATCCCCACCAG	2938
Query	4628		CGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGA	4687
Sbjct	2939		CGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGA	2998
Query	4688		CTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCCTAC	4747
Sbjct	2999		CTCGGTGATAGACTGCAATACGTGTGTCACTCAGACAGTCGATTTACAGCCTTGACCCTAC	3058
Query	4748		CTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGG	4807
Sbjct	3059		CTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGG	3118
Query	4808		CAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCAGGGGGAGCGCCCCCTC	4867
Sbjct	3119		CAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCAGGGGGAGCGCCCCCTC	3178
Query	4868		CGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	4927
Sbjct	3179		CGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	3238
Query	4928		GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	4987
Sbjct	3239		GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	3298
Query	4988		CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGA	5047
Sbjct	3299		CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGA	3358
Query	5048		TGCCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTA	5107
Sbjct	3359		TGCCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTA	3418
Query	5108		CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAA	5167
Sbjct	3419		CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAA	3478
Query	5168		GTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	5227
Sbjct	3479		GTGTTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	3538
Query	5228		CGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCAT	5287
Sbjct	3539		CGCTGTTCAGAATGAAATCACCCCTGACGCACCCAGTCACCAAATACATCATGACATGCAT	3598
Query	5288		GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGC	5347
Sbjct	3599		GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTGGCTGC	3658
Query	5348		TCTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTC	5407
Sbjct	3659		TTTGGCCGCGTATTGCCGTGTCAACAGGCTGCGTGGTTCATAGTGGGCAGGATCGTCTTGTC	3718
Query	5408		CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGG	5466
Sbjct	3719		CGGGAAGCCGGCAATCATACTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGG	3777
Query	5467		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	3778		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCA	3837
Query	5527		AGCAGAAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	3838		AGCAGAAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCCTG	3897
Query	5587		CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	3898		CTGTCCAGACCAACTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAATTTCA	3957
Query	5647		TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	3958		TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4017
Query	5707		CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCCTAACCCTGGCCAAACCCTCCTCT	5766

Sbjct	4018	T G A T G G C T T T T A C A G C T G C T G T C A C C A G C C C A C T A A C C A C T A G C C A A A C C C T C T C T	4077
Query	5767	TCAACATATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4078	TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	4137
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4138	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCA	4197
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4198	TAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCA	4257
Query	5947	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTCGC	6006
Sbjct	4258	TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCCGCCATCCTCTCGC	4317
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCG	6066
Sbjct	4318	CCGGAGCCCTCGTAGTCGGCGTGGTCTGTGTCAGCAATACTGCGCCGGCACGTTGGCCCCG	4377
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4378	GCGAGGGGGCAGTGTCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATG	4437
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCA	6186
Sbjct	4438	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCTCACTGCCATACTCA	4497
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	4498	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTA	4557
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	4558	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGA	4617
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366
Sbjct	4618	GCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTG	4677
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	6425
Sbjct	4678	TGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGC	4736
Query	6426	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	6485
Sbjct	4737	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	4796
Query	6486	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGC	6545
Sbjct	4797	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAATGCCTACACCACGGGC	4856
Query	6546	CCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAG	6605
Sbjct	4857	CCCTGTACCCCCCTTCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTGTCTGCAGAG	4916
Query	6606	GAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA	6664
Sbjct	4917	GAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGA	4975
Query	6665	CAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTTCACAGAATTGGACGGGGT	6724
Sbjct	4976	CAATCTCAAATGCCCCGTGCCAGTCCCATCGCCCCGAATTTTTTCACAGAATTGGACGGGGT	5035
Query	6725	GCGCCTACACAGTTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	5036	GCGCCTACATAGTTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	5095
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	5096	AGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	5155
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904

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Sbjct  5156  |||||
GGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCG 5215
Query  6905  AAGGTTGGCGAGAGGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCG 6963
Sbjct  5216  AAGGTTGGCGAG-GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCG 5274
Query  6964  CTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAG 7023
Sbjct  5275  CTCCATCTCTCAAGGCAACTTGACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAG 5334
Query  7024  AGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGA 7083
Sbjct  5335  AGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAA 5394
Query  7084  ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGG 7143
Sbjct  5395  ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGA 5454
Query  7144  TCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCTGCCCGTCT 7203
Sbjct  5455  TCTCCGTACCCGCAGAAATCTGCGGAAGTCTCGGAGATTGCCCCAGGCCCTGCCCGTTT 5514
Query  7204  GGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAAC 7263
Sbjct  5515  GGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAAC 5574
Query  7264  CACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTC 7323
Sbjct  5575  CACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCCTCCTGTGCCTCCGCCTC 5634
Query  7324  GGAAAAAGCGTACGGTGGTCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTG 7383
Sbjct  5635  GGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCG 5694
Query  7384  CCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT 7443
Sbjct  5695  CCACCAGAAGCTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT 5754
Query  7444  CCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCA 7503
Sbjct  5755  CCTCTGAGCCCGCCCCCTTCTGGCTGCCCCCCCGACTCCGACGCTGAGTCCTATTCTTCCA 5814
Query  7504  TGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGG 7563
Sbjct  5815  TGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGG 5874
Query  7564  TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTTGGACAG 7623
Sbjct  5875  TCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAG 5934
Query  7624  GCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAACTGCCCATCAACGCACTGAGCA 7683
Sbjct  5935  GCGCACTCGTCACCCCGTGCGCCGCGGAAGACAGAACTGCCCATCAATGCACTAAGCA 5994
Query  7684  ACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAA 7743
Sbjct  5995  ACTCGTTGCTACGTACCCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAA 6054
Query  7744  GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGC 7803
Sbjct  6055  GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTAC 6114
Query  7804  TCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG 7863
Sbjct  6115  TCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG 6174
Query  7864  CTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACG 7923
Sbjct  6175  CTTGCAGCCTGACGCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACG 6234
Query  7924  TCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGG 7983
Sbjct  6235  TCCGTTGCCATGCCAGAAAGGCCGTAAACCCACATCAACTCCGTGTGGAAAGACCTTCTGG 6294
Query  7984  AAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTC 8043
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Query 1690 CAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGG 1749

Sbjct	1		60
Query	1750	GTCCATATCAGTTATGCCAACGGAAGCGGCCCTCGACGAACGCCCTACTGCTGGCACTACC	1809
Sbjct	61		120
Query	1810	CTCCAAGACCTTGTGGCATTGTGCCCCGAAAGAGCGTGTGTGGCCCCGGTATATTGCTTCA	1869
Sbjct	121		180
Query	1870	CTCCCAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCTACCTACAGCTGGG	1929
Sbjct	181		240
Query	1930	GTGCAAATGATACGGATGTCTTCGTCCCTTAACAACACCAGGCCACCGCTGGGCAATTGGT	1989
Sbjct	241		300
Query	1990	TCGGTTGTACCTGGATGAACTCAACTGGATTACCAAAGTGTGCGGAGCGCCCCCTTGTG	2049
Sbjct	301		360
Query	2050	TCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATC	2109
Sbjct	361		420
Query	2110	CGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCG	2169
Sbjct	421		480
Query	2170	ACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCA	2229
Sbjct	481		540
Query	2230	GGATGTACGTGGGAGGGGTGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCG	2289
Sbjct	541		600
Query	2290	AACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCA	2349
Sbjct	601		660
Query	2350	CACAGTGGCAGGTCCCTCCCGTGTTCCTTACGACCCTGCCAGCCTTGTCCACCGGCCTCA	2409
Sbjct	661		720
Query	2410	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	2469
Sbjct	721		780
Query	2470	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCTTCTGCTTGCAGACGCGC	2529
Sbjct	781		840
Query	2530	GCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	2589
Sbjct	841		900
Query	2590	ACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCTCG	2649
Sbjct	901		960
Query	2650	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCCGAGCGGTCTACGCC	2709
Sbjct	961		1020
Query	2710	TCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATAACGCAC	2769
Sbjct	1021		1080
Query	2770	TGGACACGGAGGTGGCCGCGTCGTGTGGCGGCTTGTTCCTTGTGCGGTTAATGGCGCTGA	2829
Sbjct	1081		1140
Query	2830	CTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTC	2889

Sbjct	1141	CTCTGTCAACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTC	1200
Query	2890	TGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCgggggggC	2949
Sbjct	1201	TGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCTCAACGTCCGAGGGGGGC	1260
Query	2950	GCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	1261	GCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACC	1319
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	1320	AAATTGCTGCTGGCCGCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTA	1379
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1380	CCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC	1439
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	1440	-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGT	1498
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAAACGGCTGCGAGATCTGGCCGT	3247
Sbjct	1499	TTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAAACGGCTTGCAGATCTGGCCGT	1558
Query	3248	GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	1559	GGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	1618
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	3367
Sbjct	1619	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCGTGTTTCCGCCCGCAGGGGCCGGGA	1678
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	3427
Sbjct	1679	GATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	1738
Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCCTCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	1739	CACGGCGTACGCCCAGCAGACAAGGGGCCCTCTAGGGTGCATAATCACCAGCCTAACTGG	1798
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	1799	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTT	1858
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	1859	CCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	1918
Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTGGACCAAGACCTTGT	3667
Sbjct	1919	CATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATAACCAATGTAGACCAAGACCTTGT	1978
Query	3668	GGGCTGGCCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	1979	GGGCTGGCCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGA	2038
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2039	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAG	2098
Query	3788	GGGTAGCCTGCTTTTCGCCCCGGCCCATTTCTACTTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2099	GGGCAGCCTGCTGTTCGCCCCGGCCCATTTCTACTTTGAAAGGCTCCTCGGGGGGTCCGCT	2158
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2159	GTTGTGCCCCGCGGGGACACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGT	2218
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2219	GGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGT	2278
Query	3968	G TTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCACCTGCA	4027


Sbjct	2279		GTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCA	2338
Query	4028		TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2339		TGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTA	2398
Query	4088		CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2399		TAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTC	2458
Query	4148		CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	2459		CAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	2518
Query	4208		CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	2519		CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGCGC	2578
Query	4268		TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	4327
Sbjct	2579		TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCAT	2638
Query	4328		CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	2639		CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGC	2698
Query	4388		TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	2699		CACCCCTCCGGGCTCCGTCACTGTGTCCCATCCCAACATCGAGGAGGTTGCTCTGTCCAC	2758
Query	4448		CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAG	4507
Sbjct	2759		CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGAG	2818
Query	4508		ACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGC	4567
Sbjct	2819		ACATCTCATCTTCTGTCAATCAAAGAAGAAGTGCGACGAACCTCGCCGCGAAGCTGGTCGC	2878
Query	4568		ATTGGGCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGTCTGTCATCCCGACCAG	4627
Sbjct	2879		ATTGGGCATCAATGCCGTGGCCTACTACCGCGTCTTGACGTGTCCGTATCCCGACCAG	2938
Query	4628		CGGCGATGTTGTCGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGA	4687
Sbjct	2939		CGGCGATGTTGTCGTCTGTGTCGACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGA	2998
Query	4688		CTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAGCCTTGACCCTAC	4747
Sbjct	2999		CTCGGTGATAGACTGCAATACGTGTGTACCCAGACAGTCGATTTAGCCTTGACCCTAC	3058
Query	4748		CTTTACCATTTAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGG	4807
Sbjct	3059		CTTCACCATTTAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGG	3118
Query	4808		CAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCCTC	4867
Sbjct	3119		CAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGAGCGCCCCCTC	3178
Query	4868		CGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	4927
Sbjct	3179		CGGCATGTTTCGACTCGTCCGTCCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	3238
Query	4928		GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	4987
Sbjct	3239		GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	3298
Query	4988		CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGA	5047
Sbjct	3299		CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCATATAGA	3358
Query	5048		TGCCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTA	5107
Sbjct	3359		TGCCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTACCTGGTAGCGTA	3418
Query	5108		CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAA	5167

Sbjct	3419		CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCCATCGTGGGACCAGATGTGGAA	3478
Query	5168		GTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	5227
Sbjct	3479		GTGTTTGATTGCGCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	3538
Query	5228		CGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAATACATCATGACATGCAT	5287
Sbjct	3539		CGCTGTTTCAAGATGAAATCACCTGACGCACCCAGTCACCAAATACATCATGACATGCAT	3598
Query	5288		GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	5347
Sbjct	3599		GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	3658
Query	5348		TCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTC	5407
Sbjct	3659		TTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTC	3718
Query	5408		CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGG	5466
Sbjct	3719		CGGGAAGCCGGCAATCATACCTGACAGGGAAGTCTCTACCGAG-AGTTCGATGAGATGG	3777
Query	5467		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	3778		AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCA	3837
Query	5527		AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	3838		AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCTCCCGCTCAGGCAGAGGTTATCGCCCCCTG	3897
Query	5587		CTGTCCAGACCAACTGGCAGAACTCGAGGTCCTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	3898		CTGTCCAGACCAACTGGCAAAAACCTCGAGACCTTCTGGGCGAAGCATATGTGGAATTTCA	3957
Query	5647		TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	3958		TCAGTGGGATAACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4017
Query	5707		CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCCTGGCCAAACCCCTCCTCT	5766
Sbjct	4018		CATTGATGGCTTTTACAGCTGCTGTACCAGCCCACTAACCCTAGCCAAACCCCTCCTCT	4077
Query	5767		TCAACATATTgggggggTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4078		TCAACATATTGGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	4137
Query	5827		TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4138		TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTGGACTGGGGAAGGTCCTCA	4197
Query	5887		TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4198		TAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTCTGGCATTCAAGATCA	4257
Query	5947		TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCGCCATCCTCTCGC	6006
Sbjct	4258		TGAGCGGTGAGGTCCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCCGCCATCCTCTCGC	4317
Query	6007		CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCCG	6066
Sbjct	4318		CCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCCG	4377
Query	6067		GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4378		GCGAGGGGGCAGTGCAATGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATG	4437
Query	6127		TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCA	6186
Sbjct	4438		TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCA	4497
Query	6187		GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	4498		GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTA	4557
Query	6247		CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306

Sbjct	4558		CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGA	4617
Query	6307		GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGGGATTCCCTTTG	6366
Sbjct	4618		GCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCTTTG	4677
Query	6367		TGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	6425
Sbjct	4678		TGTCCTGCCAGCGCGGGTATAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGC	4736
Query	6426		TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	6485
Sbjct	4737		TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	4796
Query	6486		CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGC	6545
Sbjct	4797		CCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGC	4856
Query	6546		CCCTGTACTCCCCTTCCTGCGCCGAACATAAGTTTCGCGCTGTGGAGGGTGTCTGCAGAG	6605
Sbjct	4857		CCCTGTACCCCCCTTCCTGCGCCGAACACACGTTTCGCGCTATGGAGGGTGTCTGCAGAG	4916
Query	6606		GAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA	6664
Sbjct	4917		GAATATGTGGAGATAAGGCGAGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGA	4975
Query	6665		CAATCTTAAATGCCCCGTGCCAGATCCCATCGCCCCGAATTTTTTCACAGAATTGGACGGGGT	6724
Sbjct	4976		CAATCTCAAATGCCCCGTGCCAGTCCCATCGCCCCGAATTTTTTCACAGAATTGGACGGGGT	5035
Query	6725		GCGCCTACACAGGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	6784
Sbjct	5036		GCGCCTACATAGTTTTCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTAG	5095
Query	6785		AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	5096		AGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	5155
Query	6845		AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	5156		GGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCG	5215
Query	6905		AAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCG	6963
Sbjct	5216		AAGGTTGGCGAG-GGGATCACCCCTTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCG	5274
Query	6964		CTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAG	7023
Sbjct	5275		CTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAG	5334
Query	7024		AGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGA	7083
Sbjct	5335		AGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAA	5394
Query	7084		ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGG	7143
Sbjct	5395		ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGA	5454
Query	7144		TCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGATTCGCCCCGGGCCCTGCCCGTCT	7203
Sbjct	5455		TCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCCAGGCCCTGCCCGTTT	5514
Query	7204		GGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAAC	7263
Sbjct	5515		GGGCGCGGCCGGACTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCCGACTACGAAC	5574
Query	7264		CACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCCTCCTGTGCCTCCGCCTC	7323
Sbjct	5575		CACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCCTCCTGTGCCTCCGCCTC	5634
Query	7324		GGAAAAAGCGTACGGTGGTCTCACC GAATCAACCCTATCTACTGCCTTGGCCGAGCTTG	7383
Sbjct	5635		GGAAGAAGCGGACGGTGGTCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCG	5694
Query	7384		CCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT	7443

Sbjct	5695	CAGAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT	5754
Query	7444	CCTCTGAGCCCGCCCTTCTGGCTGCCCCCGACTCCGACGTTGAGTCCTATTCTTCCA	7503
Sbjct	5755	CCTCTGAGCCCGCCCTTCTGGCTGCCCGCCGACTCCGACGCTGAGTCCTATTCTTCCA	5814
Query	7504	TGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGG	7563
Sbjct	5815	TGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCATGGTCAACGG	5874
Query	7564	TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCTGGACAG	7623
Sbjct	5875	TCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACTCTTGGACAG	5934
Query	7624	GCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGCACTGAGCA	7683
Sbjct	5935	GCGCACTCGTCACCCCGTGCCTGCGCGGAAGAACAAGAACTGCCCATCAATGCACTAAGCA	5994
Query	7684	ACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAA	7743
Sbjct	5995	ACTCGTTGCTACGTCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAA	6054
Query	7744	GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGC	7803
Sbjct	6055	GGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTAC	6114
Query	7804	TCAAGGAGGTCAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	7863
Sbjct	6115	TCAAGGAGGTTAAAGCAGCGCGCTCAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	6174
Query	7864	CTTGCAAGCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAGACG	7923
Sbjct	6175	CTTGCAAGCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAGACG	6234
Query	7924	TCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGACCTTCTGG	7983
Sbjct	6235	TCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGG	6294
Query	7984	AAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTC	8043
Sbjct	6295	AAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTC	6354
Query	8044	AGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGACCTGGGCGTGC	8103
Sbjct	6355	AGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTCCCCGATCTGGGCGTGC	6414
Query	8104	GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATG	8162
Sbjct	6415	GCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATG	6473
Query	8163	GGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCG	8222
Sbjct	6474	GGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCTCGTGCAAGCG	6533
Query	8223	TGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACA	8282
Sbjct	6534	TGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACA	6593
Query	8283	GTCCTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC	8342
Sbjct	6594	GTCCTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCC	6653
Query	8343	CAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACC	8402
Sbjct	6654	CAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGCCCTCTTACC	6713
Query	8403	AATTCAAGGGGGGAAAAGTGCAGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACT	8462
Sbjct	6714	AATTCAAGGGGGGAGAACTGCAGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACT	6773
Query	8463	AGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCGAGG	8522
Sbjct	6774	AGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCGAGG	6833
Query	8523	CTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCG	8582

Sbjct	6834		CTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCG	6893
Query	8583		GGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCC	8642
Sbjct	6894		GGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCC	6953
Query	8643		GccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCC	8702
Sbjct	6954		GCCCCCCCCTGGGGACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCC	7013
Query	8703		TCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGAC	8762
Sbjct	7014		TCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCGTGAC	7073
Query	8763		CCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCC	8822
Sbjct	7074		CCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCC	7133
Query	8823		TGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACC	8882
Sbjct	7134		TGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGACC	7193
Query	8883		CATTTCTTTAGCGTCTTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATC	8942
Sbjct	7194		CATTTCTTTAGCGTCTTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATC	7253
Query	8943		TACGGAGCCTGCTACTCCATAGAACCCTTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	7254		TACGGGGCCTGCTACTCCATAGAACCCTTGATCTACCTCCAATCATTCAAAGACTC	7310

>dbj|DJ065327.1|  HCV Replicon Shuttle Vectors
Length=11509

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.108e+04 bits (6002), Expect = 0.0
Identities = 6122/6181 (99%), Gaps = 4/6181 (0%)
Strand=Plus/Plus

Query	3418		TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCA	3477
Sbjct	3348		TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCCTACTTGGCTGCATCATCACTA	3407
Query	3478		GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGTAGGTCC-AGATCGTGTCAACTGCT	3536
Sbjct	3408		GCCTCACAGGCCGGGACAGGAACCAGGTCGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA	3466
Query	3537		ACCCAAACCTTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC	3596
Sbjct	3467		ACACAATCTTTCTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC	3526
Query	3597		GGAACGAGGACCATCG-CATCACCCAAGGGTCCTGTCTATCCAGATGTATACCAATGTGGA	3655
Sbjct	3527		GGCTCAAAGACCCTTGCCGGC-CCAAAGGGCCCAATCACCCAAATGTACACCAATGTGGA	3585
Query	3656		CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG	3715
Sbjct	3586		CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG	3645
Query	3716		CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG	3775
Sbjct	3646		CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG	3705
Query	3776		AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTC	3835
Sbjct	3706		AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGGCCATTTCTACTTGAAAGGCTCCTC	3765
Query	3836		GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTG	3895
Sbjct	3766		GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTAGGGCCGCGGTGTG	3825

Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTACGGACAACCTCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCACCAGCGGCGATGTTGTCGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCACCAGCGGCGATGTTGTCGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACG	4735
Sbjct	4606	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACG	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4965

Query	5036	CACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5755
Sbjct	5626	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5685
Query	5756	AACCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5686	AACCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	CGTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5805
Query	5876	GAAGGTCTCTGTTGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	GAAGGTCTCTGTTGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5925
Query	5996	CATCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985
Query	6056	CGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5986	CGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCAC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCACGCACTACGTGCCGAGAGCGATGCAGCCGCCCGCGTCAC	6105

Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6226	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	GATTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6465
Query	6536	CACCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGCCCCCTGTACTCCCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6645
Query	6716	GGACGGGGTGC GCCTACACAGGTTTGC GCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGC GCCTACACAGGTTTGC GCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6706	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6825
Query	6896	GGCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAAAGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7126	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7186	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7245


Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7246	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTACCGAATCAACCCTATCTACTGCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTG????GACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATG????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7426	TTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7615
Sbjct	7486	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7545
Query	7616	CTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGC	7675
Sbjct	7546	CTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGC	7605
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGC	7735
Sbjct	7606	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGC	7665
Query	7736	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7666	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7725
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7726	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7785
Query	7856	AGAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGC	7915
Sbjct	7786	AGAGGAAGCTTGCAGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGCTATGGGGC	7845
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7846	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGA	7905
Query	7976	CCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTT	8035
Sbjct	7906	CCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTTTT	7965
Query	8036	CTGCGTTTACGCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCT	8095
Sbjct	7966	CTGCGTTTACGCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCT	8025
Query	8096	GGGCGTGC GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8026	GGGCGTGC GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8085
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8086	CGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGT	8145
Query	8216	GCAAGCGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8275
Sbjct	8146	GCAAGCGTGGAAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8205
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8206	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8265
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8395
Sbjct	8266	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8325
Query	8396	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8455
Sbjct	8326	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8385

Query	8456	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8515
Sbjct	8386	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8445
Query	8516	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8575
Sbjct	8446	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8505
Query	8576	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8635
Sbjct	8506	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8565
Query	8636	GTACTCCGAAAAAAAAAAAAACAACCAGAATACGACTTGAGAGCTTATAACATC	8695
Sbjct	8566	GTACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGAGAGCTTATAACATC	8625
Query	8696	ATGCTCCTCCAACGTGTCACTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTAC	8755
Sbjct	8626	ATGCTCCTCCAACGTGTCACTCGCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTAC	8685
Query	8756	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8815
Sbjct	8686	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8745
Query	8816	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACT	8875
Sbjct	8746	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACT	8805
Query	8876	GATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGT	8935
Sbjct	8806	GATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAGT	8865
Query	8936	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAG	8995
Sbjct	8866	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAG	8925
Query	8996	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	9055
Sbjct	8926	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	8985
Query	9056	GGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGAGACACCGGGCCCG	9115
Sbjct	8986	GGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGAGACACCGGGCCCG	9045
Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9175
Sbjct	9046	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9105
Query	9176	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCT	9235
Sbjct	9106	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCT	9165
Query	9236	GGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTG	9295
Sbjct	9166	GGACTTGTCCGGTTGGTTACAGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTG	9225
Query	9296	TCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9355
Sbjct	9226	TCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9285
Query	9356	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9415
Sbjct	9286	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9345
Query	9416	TGAAA	9475
Sbjct	9346	TGTTCTTT	9405
Query	9476	AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9535
Sbjct	9406	TTTCTTTCTTTTTCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9465
Query	9536	GTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC	9595
Sbjct	9466	GTGAAAGGTCCGTGAGCCGCTTGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC	9525

Query 9596 A 9596
 |
 Sbjct 9526 A 9526

Score = 597 bits (323), Expect = 6e-167
 Identities = 337/343 (98%), Gaps = 4/343 (1%)
 Strand=Plus/Plus

Query	1	GCCAGCCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTAC	58
Sbjct	26	GCCAGCCCCC-GATTGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTAC	83
Query	59	TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGG	118
Sbjct	84	TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGG	143
Query	119	AccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC	178
Sbjct	144	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC	203
Query	179	AGGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCC	238
Sbjct	204	AGGACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCC	263
Query	239	CCGCAAGACTGCTAGCCGAGTAGTGTGGGTCTGCGAAAGGCCTTGTGGTACTGCCTGATA	298
Sbjct	264	CCGCGAGACTGCTAGCCGAGTAGTGTGGGTCTGCGAAAGGCCTTGTGGTACTGCCTGATA	323
Query	299	GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC	341
Sbjct	324	GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC	366

>emb|CS619793.1|  Sequence 2 from Patent EP1801116
 Length=11509

Sort alignments for this subject se
 E value Score Percent identity
 Query start position Subject sta

Score = 1.108e+04 bits (6002), Expect = 0.0
 Identities = 6122/6181 (99%), Gaps = 4/6181 (0%)
 Strand=Plus/Plus

Query	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCA	3477
Sbjct	3348	TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCCTACTTGGCTGCATCATCACTA	3407
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAAGTCC-AGATCGTGTCAACTGCT	3536
Sbjct	3408	GCCTCACAGGCCGGGACAGGAACAGGTCGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA	3466
Query	3537	ACCCAAACCTTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC	3596
Sbjct	3467	ACACAATCTTTCTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC	3526
Query	3597	GGAACGAGGACCATCG-CATCACCCAAGGGTCTGTATCCAGATGTATAACCAATGTGGA	3655
Sbjct	3527	GGCTCAAAGACCCTTGCCGGC-CCAAAGGGCCCAATCACCCAAATGTACACCAATGTGGA	3585
Query	3656	CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG	3715
Sbjct	3586	CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG	3645
Query	3716	CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG	3775
Sbjct	3646	CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG	3705
Query	3776	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTC	3835
Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG	3895

Sbjct	3766	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	GGCCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCAGCAGCGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCAGCAGCGCGATGTTGTCTGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAG	4735
Sbjct	4606	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAG	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035

Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4965
Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATACCCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATACCCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5755
Sbjct	5626	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5685
Query	5756	AACCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5686	AACCTCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	CGTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985
Query	6056	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5986	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6175

Sbjct	6046	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6226	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCTTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	GATTCCTTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
Query	6476	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6465
Query	6536	CACCACGGGCCCCCTGTACTCCCCCTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGCCCCCTGTACTCCCCCTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTCTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6706	ATCATTAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6825
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7126	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315


Sbjct	7186	CTACGAACCACCTGTGGTCCATGGCTGCCCCGTACCACCTCCACGGTCCCCCTCCTGTGCC	7245
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACC GAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7246	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACC GAATCAACCCTATCTACTGCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTG GACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTG CCCCCCGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATG GGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7426	TTCTTCCATG CCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7615
Sbjct	7486	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7545
Query	7616	CTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACA AAAACTGCCCATCAACGC	7675
Sbjct	7546	CTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACA AAAACTGCCCATCAACGC	7605
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAACTGGTG TATTCCACCATTACGCAGTGC	7735
Sbjct	7606	ACTGAGCAACTCGTTGCTACGCCATCACAACTGGTG TATTCCACCATTACGCAGTGC	7665
Query	7736	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7666	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7725
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA AAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7726	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA AAGTGAAGGCTAACTTGCTATCCGT	7785
Query	7856	AGAGGAAGCTTG CAGCCTGACGCCCCACATT CAGCCAAATCCAAGTTTGCTATGGGGC	7915
Sbjct	7786	AGAGGAAGCTTG CAGCCTGACGCCCCACATT CAGCCAAATCCAAGTTTGCTATGGGGC	7845
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAG CCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7846	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAG CCCACATCAACTCCGTGTGGAAAGA	7905
Query	7976	CCTTCTGGAAGACAGTGTAACACCAATAGACACTACC ATCATGGCCAAGAACGAGGTTTT	8035
Sbjct	7906	CCTTCTGGAAGACAGTGTAACACCAATTGACACTACC ATCATGGCCAAGAACGAGGTTTT	7965
Query	8036	CTGCGTT CAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8095
Sbjct	7966	CTGCGTT CAGCCTGAGAAGGGGGGTCTGAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8025
Query	8096	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8026	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8085
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8086	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8145
Query	8216	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8275
Sbjct	8146	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8205
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8206	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8265
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8395
Sbjct	8266	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8325
Query	8396	TCTTACCAATTCAAGGGGGGAAAAGTGC GGCTACCGCAGGTGCCGCGCAGCGGCGTACT	8455

Sbjct	8326	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8385
Query	8456	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGAGC	8515
Sbjct	8386		8445
Query	8516	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGAGC	8575
Sbjct	8446	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8505
Query	8576	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8635
Sbjct	8506		8565
Query	8636	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8695
Sbjct	8566	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8625
Query	8696	GTACTCCG	8755
Sbjct	8566	GTACTCCGCCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGAGGCTTATAACATC	8625
Query	8696		8755
Sbjct	8626	ATGCTCCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTAC	8685
Query	8756	ATGCTCCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTAC	8815
Sbjct	8686	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8745
Query	8816	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGT	8875
Sbjct	8746	CAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACT	8805
Query	8876	CAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACT	8935
Sbjct	8806	GATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8865
Query	8936	GATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8995
Sbjct	8866	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAG	8925
Query	8996	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAAAG	9055
Sbjct	8926	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	8985
Query	9056	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	9115
Sbjct	8986	GGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGAGACACCGGGCCCG	9045
Query	9116	GGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGAGACACCGGGCCCG	9175
Sbjct	9046	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9105
Query	9176	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9235
Sbjct	9106	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCT	9165
Query	9236	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGCCGCTGGCCGGCT	9295
Sbjct	9166	GGACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCT	9225
Query	9296	GGACTTGTCCGGTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTGTCT	9355
Sbjct	9226	TCATGCCC	9285
Query	9356	TCATGCCC	9415
Sbjct	9286	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9345
Query	9416	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9475
Sbjct	9346	TG	9405
Query	9476	TG	9535
Sbjct	9406	TTTCCCTTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9465
Query	9536	TTTCCCTTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9595
Sbjct	9406	GTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC	9595

Sbjct 9466 GTGAAAGGTCCGTGAGCCGCTTGA CTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC 9525
Query 9596 A 9596
|
Sbjct 9526 A 9526

Score = 597 bits (323), Expect = 6e-167
Identities = 337/343 (98%), Gaps = 4/343 (1%)
Strand=Plus/Plus

Query	1	GCCAGCCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTAC	58
Sbjct	26	GCCAGCCCCC-GATTGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTAC	83
Query	59	TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG	118
Sbjct	84	TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG	143
Query	119	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC	178
Sbjct	144	ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC	203
Query	179	AGGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCC	238
Sbjct	204	AGGACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGGGGCGTGCCC	263
Query	239	CCGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA	298
Sbjct	264	CCGCGAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA	323
Query	299	GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC	341
Sbjct	324	GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC	366

>emb|GM975264.1|  Sequence 19 from Patent WO2008148671
Length=11507

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.106e+04 bits (5987), Expect = 0.0
Identities = 6117/6181 (98%), Gaps = 4/6181 (0%)
Strand=Plus/Plus

Query	3418	TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA	3477
Sbjct	3346	TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCTACTTGGCTGCATCATCACTA	3405
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT	3536
Sbjct	3406	GCCTCACAGGCCGGGACAGGAACCAGGTCGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA	3464
Query	3537	ACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC	3596
Sbjct	3465	ACACAATCTTTCTGGCGACCTGCGTCAATGGCGTGTGTGGACTGTCTATCATGGTGCC	3524
Query	3597	GGAACGAGGACCATCG-CATCACCCAAGGTCCTGTGCATCCAGATGTATAACCAATGTGGA	3655
Sbjct	3525	GGCTCAAAGACCCTTGCCGGC-CCAAAGGGCCCAATCACCCAAATGTACACCAATGTGGA	3583
Query	3656	CCAAGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG	3715
Sbjct	3584	CCAAGACCTTGTTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG	3643
Query	3716	CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG	3775
Sbjct	3644	CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG	3703
Query	3776	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTC	3835
Sbjct	3704	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTC	3763

Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3895
Sbjct	3764	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3823
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3824	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3883
Query	3956	GAGATCCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3884	GAGATCCCCGGTGTTCACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3943
Query	4016	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3944	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4003
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4004	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4063
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4064	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4123
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4124	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4183
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4184	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4243
Query	4316	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4244	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4303
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4304	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4363
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4364	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4423
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4424	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4483
Query	4556	GAAGCTGGTTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4484	GAAGCTGGTTCGATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4543
Query	4616	CATCCCGACCAGCGCGCATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4544	CATCCCGACCAGCGCGCATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4603
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACG	4735
Sbjct	4604	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTACG	4663
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4664	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4723
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4724	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4783
Query	4856	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4784	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4843
Query	4916	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4844	TGCTTGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4903

Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4904	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4963
Query	5036	CACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5095
Sbjct	4964	CACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5023
Query	5096	CCTGGTAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5155
Sbjct	5024	CCTGGTAGCGTACCAAGCCACCCTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5083
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5084	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5143
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5144	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5203
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5204	CATGACATGCATGTCGGCTGATCTAGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5263
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5264	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5323
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5324	GATCGTCTTGTCCGGGAGGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5383
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5384	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5443
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5444	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5503
Query	5576	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5504	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5563
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5564	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5623
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5755
Sbjct	5624	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5683
Query	5756	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5684	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5743
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5744	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5803
Query	5876	GAAGGTCTCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5804	GAAGGTCTCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5863
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5995
Sbjct	5864	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5923
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5924	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5983
Query	6056	CGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5984	CGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6043

Query	6116	GGGGAACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6175
Sbjct	6044	GGGGAACCATGTTTCCCCCAGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6103
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6104	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6163
Query	6236	CTCGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6164	CTCGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6223
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6224	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6283
Query	6356	GATTCCCTTTGTGTCTTCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6284	GATTCCCTTTGTGTCTTCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6343
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6344	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6403
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTA	6535
Sbjct	6404	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCATTAACGCCTA	6463
Query	6536	CACCACGGGCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6464	CACCACGGGCCCTGTACTCCCTTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6523
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6524	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6583
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6715
Sbjct	6584	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTCACAGAATT	6643
Query	6716	GGACGGGGTGC GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6644	GGACGGGGTGC GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6703
Query	6776	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCC GA	6835
Sbjct	6704	ATCATTAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCC GA	6763
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6764	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6823
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6824	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6883
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6884	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGA	6943
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6944	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7003
Query	7076	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7004	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7063
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7195
Sbjct	7064	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCGCCGGGCCCT	7123
Query	7196	GCCCGTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7124	GCCCGTCTGGGCGCGGCCGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7183

Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7184	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7243
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCCTACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7244	TCCGCCTCGGAAAAAGCGTACGGTGGTCCCTACCGAATCAACCCTATCTACTGCCTTGGC	7303
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7304	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7363
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTG???????GACTCCGACGTTGAGTCCTA	7495
Sbjct	7364	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCCTCCGACGTTGAGTCCTA	7423
Query	7496	TTCTTCCATG???????TGAGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7424	TTCTTCCATGCCCCCCTTGAGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7483
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7615
Sbjct	7484	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7543
Query	7616	CTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGC	7675
Sbjct	7544	CTGGACAGGCGCACTCGTCACCCCGTGCCTGCGGAAGAACAACAACTGCCCATCAACGC	7603
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGC	7735
Sbjct	7604	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCATTACGCAGTGC	7663
Query	7736	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7664	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7723
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7724	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAGTGAAGGCTAACTTGCTATCCGT	7783
Query	7856	AGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGGC	7915
Sbjct	7784	AGAGGAAGCTTGCAGCCTGACGCCCCACATTACGCCAAATCCAAGTTTGCTATGGGGC	7843
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7844	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAAGA	7903
Query	7976	CCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTT	8035
Sbjct	7904	CCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTTTT	7963
Query	8036	CTGCGTTACAGCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCT	8095
Sbjct	7964	CTGCGTTACAGCTGAGAAGGGGGGTGTAAGCCAGCTCGTCTCATCGTGTTCCTCCGACCT	8023
Query	8096	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8024	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8083
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8084	CGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTCGT	8143
Query	8216	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8275
Sbjct	8144	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8203
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8204	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8263
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8395
Sbjct	8264	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC	8323

[illegible]


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Query 9536 GTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC 9595
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct 9464 GTGAAAGGTCCGTGAGCCGCTTACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC 9523

Query 9596 A 9596
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Sbjct 9524 A 9524
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Score = 597 bits (323), Expect = 6e-167
Identities = 337/343 (98%), Gaps = 4/343 (1%)
Strand=Plus/Plus

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Sbjct 84 TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGG 143

Query 119 AcccccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 178
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Query 299 GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC 341
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Sbjct 324 GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC 366
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>dbj|DJ065332.1|  HCV Replicon Shuttle Vectors
Length=11509

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.104e+04 bits (5978), Expect = 0.0
Identities = 6116/6183 (98%), Gaps = 8/6183 (0%)
Strand=Plus/Plus

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Sbjct 3348 TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCCTACTTGGCTGCATCATCACTA 3407

Query 3478 GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT 3536
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Sbjct 3408 GCCTCACAGGCCGGGACAGGAACCAGGTGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA 3466

Query 3537 ACCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC 3596
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Sbjct 3467 ACACAATCTTTCTTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC 3526

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Sbjct 3527 GGCTCAAAGACCCTTGCCGGC-CCAAAGGGCCCAATCACCCAAATGTACACCAATGTGGA 3585

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Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGCCCCATTTCTACTTGAAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3895
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Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4125
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Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
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Sbjct	4246	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCAGCAGCGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCAGCAGCGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4735
Sbjct	4606	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4785
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Sbjct	4786	GGAGCGCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975

Sbjct	4846	TGCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4965
Query	5036	CACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
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Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
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Sbjct	5566	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5625
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Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5925
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Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985
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Sbjct	5986	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6105
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Sbjct	6226	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	GATTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6465
Query	6536	CACCACGGGCCCCCTGTACTCCCCCTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGCCCCCTGTACTCCCCCTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
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Sbjct	6946	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTGCCCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255


9/8/2009

Sbjct	8264	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8323
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8324	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8383
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Sbjct	8504	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8563
Query	8634	AGGTACTCCGAAAAAAAAAGGACCAACCAACAACAGAAATACGACTTGAGCTTATAACA	8693
Sbjct	8564	AGGTACTCCGCCCCCCCCGGGGACCCCCACAACAGAAATACGACTTGAGCTTATAACA	8623
Query	8694	TCATGCTCCTCCAACGTGTCAAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8624	TCATGCTCCTCCAACGTGTCAAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8683
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
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Sbjct	8744	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8803
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Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9044	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9103
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG	9233
Sbjct	9104	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACCTCACTCCAATAGCGGCCGCTGGCCGG	9163
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Query	9294	TCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
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Query	9474	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG	9533

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Query  9594  TCA  9596
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Sbjct  9524  TCA  9526
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Score = 597 bits (323), Expect = 6e-167
Identities = 337/343 (98%), Gaps = 4/343 (1%)
Strand=Plus/Plus

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Query  1      GCCAGCCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTAC  58
Sbjct  26      GCCAGCCCCC--GATTGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTAC  83
Query  59      TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG  118
Sbjct  84      TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG  143
Query  119     AAAAAAAAAATCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC  178
Sbjct  144     AAAAAAAAAATCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC  203
Query  179     AGGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCC  238
Sbjct  204     AGGACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTGTTGGGCGTGCCC  263
Query  239     CCGCAAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA  298
Sbjct  264     CCGCGAGACTGCTAGCCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA  323
Query  299     GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC  341
Sbjct  324     GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC  366
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>emb|CS619798.1|  Sequence 7 from Patent EP1801116
Length=11509

Sort alignments for this subject se
E value Score Percent identity
Query start position Subject sta

Score = 1.104e+04 bits (5978), Expect = 0.0
Identities = 6116/6183 (98%), Gaps = 8/6183 (0%)
Strand=Plus/Plus

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Query  3418   TGGCGCCCATCACGGCGTACGCCAGCAGACGAGAGGCCCTCCTAGGGTGTATAATCACCA  3477
Sbjct  3348   TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCTACTTGGCTGCATCATCACTA  3407
Query  3478   GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT  3536
Sbjct  3408   GCCTCACAGGCCGGGACAGGAACCAGGTCGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA  3466
Query  3537   ACCCAAACCTTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC  3596
Sbjct  3467   ACACAATCTTTCTTGGCGACCTGCGTCAATGGCGTGTGTGGACTGTCTATCATGGTGCC  3526
Query  3597   GGAACGAGGACCATCG-CATCACCCAAGGGTCTGTCTATCCAGATGTATAACCAATGTGGA  3655
Sbjct  3527   GGCTCAAAGACCCTTGCCGGC-CCAAAGGGCCCAATCACCAATGTACACCAATGTGGA  3585
Query  3656   CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG  3715
Sbjct  3586   CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG  3645
Query  3716   CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG  3775
Sbjct  3646   CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG  3705
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Query	3776	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTC	3835
Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCATTTCTACTTGAAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3895
Sbjct	3766	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCAGCAGCGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCAGCAGCGCGATGTTGTCTGTCGTGTGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAG	4735
Sbjct	4606	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAG	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4785
Query	4856	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCTCCGGCATGTTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4845

Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4965
Query	5036	CACTCATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTTATCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
Query	5396	GATCGTCTTGTCGCGGAAGCCGGAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTGTCGCGGAAGCCGGAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5755
Sbjct	5626	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5685
Query	5756	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5686	AACCCCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGCTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	CGCTACTGCCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCCG	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985

Query	6056	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5986	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACCTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6226	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6285
Query	6356	GATTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	GATTCCCTTTGTGTCTTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6465
Query	6536	CACCACGGGCCCCCTGTACTCCCCCTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CACCACGGGCCCCCTGTACTCCCCCTCCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTTTACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCGAATTTCTTACAGAATT	6645
Query	6716	GGACGGGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCAG	6835
Sbjct	6706	ATCATTAGAGTAGGACTCCACAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCAG	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6825
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACACGCCAACCATGACTCCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7125

Query	7196	GCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7126	GCCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7186	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7245
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7246	TCCGCCTCGGAAAAAGCGTACGGTGGTCTCTACCGAATCAACCCTATCTACTGCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCTTCTGGCTG???????GACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCCCTGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATG???????TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7426	TTCTTCCATGCCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTGC-TGCTCAATGTCTTAT	7613
Sbjct	7486	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATG-CGATC-GCCTGCTCAATGTCTTAT	7543
Query	7614	TCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAAAACTGCCCATCAAC	7673
Sbjct	7544	TCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAACAAAACTGCCCATCAAC	7603
Query	7674	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7733
Sbjct	7604	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7663
Query	7734	GCTTGCCAAAGGCAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7664	GCTTGCCAAAGGCAGAAGAAAGTACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7723
Query	7794	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7724	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCC	7783
Query	7854	GTAGAGGAAGCTTGACGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGG	7913
Sbjct	7784	GTAGAGGAAGCTTGACGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGG	7843
Query	7914	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7844	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7903
Query	7974	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTT	8033
Sbjct	7904	GACCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTT	7963
Query	8034	TTCTGCGTTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTGAC	8093
Sbjct	7964	TTCTGCGTTTCAGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTCCTGAC	8023
Query	8094	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8153
Sbjct	8024	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8083
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTC	8213
Sbjct	8084	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCTCTC	8143
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8144	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8203
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8204	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8263

Query	8334	CTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8264	CTGGACCCCCAAGCCCGCTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8323
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAAC TCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8324	CCTCTTACCAATTCAAGGGGGGAAAAC TCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8383
Query	8454	CTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8513
Sbjct	8384	CTGACAAC TAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCTGA	8443
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8444	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8503
Query	8574	GAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8504	GAAAGTGC GGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8563
Query	8634	AGGTACTCCGccccccccgggggacccccACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8564	AGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACA	8623
Query	8694	TCATGCTCCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTT	8753
Sbjct	8624	TCATGCTCCTCCAACGTGTCTAGTCGCCCACGACGGCGCTGGAAAAGAGGGTCTACTACCTT	8683
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8684	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8743
Query	8814	GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8744	GTCAATTCTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8803
Query	8874	CTGATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8804	CTGATGACCCATTTCTTTAGCGTCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8863
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8864	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCCTGGATCTACCTCCAATCATTCAA	8923
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8924	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	8983
Query	9054	GTGGCCGCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCC	9113
Sbjct	8984	GTGGCCGCATGCCTCAGAAAAC TTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCC	9043
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9044	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9103
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAAC TCACTCCAATAGCGCCGCTGGCCGG	9233
Sbjct	9104	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAAC TCACTCCAATAGCGCCGCTGGCCGG	9163
Query	9234	CTGGACTTGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9164	CTGGACTTGTCCGTTTGGTTTACGGCTGGCTACAGCGGGGAGACATTTATCACAGCGTG	9223
Query	9294	TCTCATGCCCCGCCCCGCTGGTTCTGGTTTTTGCTACTCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9224	TCTCATGCCCCGCCCCGCTGGTTCTGGTTTTTGCTACTCTGCTCGCTGCAGGGGTAGGC	9283
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT	9413
Sbjct	9284	ATCTACCTCCTCCCCAACCGATGACGGTCCGGGTAAACACTCCGGCCTCTTAAGCCATTT	9343
Query	9414	CCTGtt	9473
Sbjct	9344	CCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTCTTTCTTTCTTCTT	9403

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Query 9474      *****AATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG 9533
                |||
Sbjct 9404      TTTTTCCTTTCTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG 9463

Query 9534      CTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGA 9593
                |||
Sbjct 9464      CTGTGAAAGGTCCGTGAGCCGCTTACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGA 9523

Query 9594      TCA 9596
                |||
Sbjct 9524      TCA 9526
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Score = 597 bits (323), Expect = 6e-167
Identities = 337/343 (98%), Gaps = 4/343 (1%)
Strand=Plus/Plus

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Query 1      GCCAGCCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTAC 58
                |||
Sbjct 26      GCCAGCCCCC-GATTGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTAC 83


Query 59      TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG 118
                |||
Sbjct 84      TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG 143

Query 119     A*****TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 178
                |||
Sbjct 144     ACCCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC 203

Query 179     AGGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCC 238
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Sbjct 204     AGGACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCC 263

Query 239     CCGCAAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATA 298
                |||
Sbjct 264     CCGCGAGACTGCTAGCCGAGTAGTGTGGGTGCGGAAAGGCCTTGTGGTACTGCCTGATA 323

Query 299     GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC 341
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Sbjct 324     GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC 366
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>emb|GM975250.1|  Sequence 5 from Patent WO2008148671
Length=11507

Score = 1.101e+04 bits (5963), Expect = 0.0
Identities = 6111/6183 (98%), Gaps = 8/6183 (0%)
Strand=Plus/Plus

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Query 3418     TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA 3477
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Sbjct 3346     TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCTACTTGGCTGCATCATCACTA 3405

Query 3478     GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT 3536
                |||
Sbjct 3406     GCCTCACAGGCCGGGACAGGAACCAGGTCGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA 3464

Query 3537     ACCCAAACCTTCTTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC 3596
                |||
Sbjct 3465     ACACAATCTTTCTTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC 3524

Query 3597     GGAACGAGGACCATCG-CATCACCCAAGGGTCTGTATCCAGATGTATACCAATGTGGA 3655
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Sbjct 3525     GGCTCAAAGACCCTTGCCGGC-CCAAAGGGCCCAATCACCCAAATGTACACCAATGTGGA 3583

Query 3656     CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG 3715
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Sbjct 3584     CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG 3643

Query 3716     CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG 3775
                |||
Sbjct 3644     CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG 3703

Query 3776     AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCTACTTGAAAGGCTCCTC 3835
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Sbjct	3704	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGCCCCATTTCTACTTGAAAGGCTCCTC	3763
Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3895
Sbjct	3764	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTTCAGGGCCGCGGTGTG	3823
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3824	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3883
Query	3956	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3884	GAGATCCCCGGTGTTACGGACAACCTCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3943
Query	4016	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3944	GGCCACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4003
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4004	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4063
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4064	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4123
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4124	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4183
Query	4256	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4184	CTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4243
Query	4316	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4375
Sbjct	4244	CATCTTGGGCATCGGCACTGTCTTGACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGT	4303
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4304	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4363
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4364	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4423
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4424	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4483
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4484	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4543
Query	4616	CATCCCAGCAGCGCGATGTTGTCGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4544	CATCCCAGCAGCGCGATGTTGTCGTCTGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4603
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4735
Sbjct	4604	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTAC	4663
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4664	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGAC	4723
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4724	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4783
Query	4856	GGAGCGCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4784	GGAGCGCCCTCCGGCATGTTGCACTCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTG	4843
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975

Sbjct	4844	TGCTTGGTATGAGCTCACGCCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4903
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4904	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4963
Query	5036	CACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5095
Sbjct	4964	CACTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTTCCTTA	5023
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5155
Sbjct	5024	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCCTCCCCATCGTGGGA	5083
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5084	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5143
Query	5216	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5144	ATACAGACTGGGCGCTGTTTCAAGATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5203
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5204	CATGACATGCATGTCGGCTGATCTAGAGGTCGTACAGACACCTGGGTGCTCGTTGGCGG	5263
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5264	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5323
Query	5396	GATCGTCTTGTCGCGGAAGCCGGAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5324	GATCGTCTTGTCGCGGAGGCCGGAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5383
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5384	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5443
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5444	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5503
Query	5576	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5504	TATACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACAT	5563
Query	5636	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5564	GTGGAATTTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5623
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5755
Sbjct	5624	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTACCAGCCCACTAACCCTGGCCA	5683
Query	5756	AACCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5815
Sbjct	5684	AACCTCCTCTTCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCCGGTGC	5743
Query	5816	CGTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5744	CGTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGG	5803
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5804	GAAGGTCCTCGTGGACATTCTTGCAAGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5863
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5864	ATTCAAGATCATGAGCGGTGAGGTCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5923
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5924	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5983
Query	6056	CGTTGGCCCGGGCAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115

Sbjct	5984	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6043
Query	6116	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6175
Sbjct	6044	GGGGAACCATGTTTCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCAC	6103
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6104	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6163
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6164	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6223
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6355
Sbjct	6224	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACCTGCCTGG	6283
Query	6356	GATTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6284	GATTCCCTTTGTGTCTCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6343
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6344	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6403
Query	6476	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6535
Sbjct	6404	GATCGTCGGTCTTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAACGCCTA	6463
Query	6536	CACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6464	CACCACGGGCCCCCTGTACTCCCCCTTCTGCGCCGAACATAAGTTCGCGCTGTGGAGGGT	6523
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6524	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6583
Query	6656	GACTACTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6584	GACTACTGACAATCTTAAATGCCCCTGCCAGATCCCATCGCCCGAATTCTTCACAGAATT	6643
Query	6716	GGACGGGGTGC GCCTACACAGGTTTGC GCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6644	GGACGGGGTGC GCCTACACAGGTTTGC GCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6703
Query	6776	ATCATTAGAGTAGGACTCCACGAGTACCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6835
Sbjct	6704	ATCATTAGAGTAGGACTCCACGAGTACCGGTGGGGTCGCAATTACCTTGCGAGCCCCGA	6763
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6895
Sbjct	6764	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGC	6823
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6824	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6883
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6884	GCTGTCCGCTCCATCTCTCAAGGCAACTTGACCGCCAACCATGACTCCCCTGACGCCGA	6943
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6944	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7003
Query	7076	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7004	GTCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7063
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCC GGCCCT	7195
Sbjct	7064	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCC GGCCCT	7123
Query	7196	GCCCGTCTGGGCGCGGCCGGA CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255

Sbjct	7124	GCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7183
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7184	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7243
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7244	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7303
Query	7376	CGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7304	CGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7363
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTG GGGGGGGG GACTCCGACGTTGAGTCCTA	7495
Sbjct	7364	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCAGTCCGACGTTGAGTCCTA	7423
Query	7496	TTCTTCCATG GGGGGGGG TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7424	TTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7483
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTGC-TGCTCAATGTCTTAT	7613
Sbjct	7484	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATG-CGATC-GCCTGCTCAATGTCTTAT	7541
Query	7614	TCCTGGACAGGCGCACTCGTCAACCCCGTGCGCTGCGGAAGAACA AAAA ACTGCCCATCAAC	7673
Sbjct	7542	TCCTGGACAGGCGCACTCGTCAACCCCGTGCGCTGCGGAAGAACA AAAA ACTGCCCATCAAC	7601
Query	7674	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7733
Sbjct	7602	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7661
Query	7734	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7662	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7721
Query	7794	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA AA AGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7722	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAA AA AGTGAAGGCTAACTTGCTATCC	7781
Query	7854	GTAGAGGAAGCTTGACGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGG	7913
Sbjct	7782	GTAGAGGAAGCTTGACGCCTGACGCCCCACATTAGCCAAATCCAAGTTTGGCTATGGG	7841
Query	7914	GCA AA AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7842	GCA AA AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCACATCAACTCCGTGTGGAAA	7901
Query	7974	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTT	8033
Sbjct	7902	GACCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTT	7961
Query	8034	TTCTGCGTTTACGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTC CC CGAC	8093
Sbjct	7962	TTCTGCGTTTACGCCTGAGAAGGGGGGTCTGTAAGCCAGCTCGTCTCATCGTGTTC CC CGAC	8021
Query	8094	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTG	8153
Sbjct	8022	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTG	8081
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8082	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTACCAGGACAGCGGGTTGAATTCCTC	8141
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8142	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8201
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8202	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8261
Query	8334	CTGGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393

Sbjct	8262	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8321
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8453
Sbjct	8322		8381
Query	8454	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCAGCGGCGTA	8513
Sbjct	8382	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8441
Query	8514		8573
Sbjct	8442	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8501
Query	8574		8633
Sbjct	8442	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8501
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8502		8561
Query	8502	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8561
Sbjct	8562	AGGTACTCCG	8693
Query	8634	AGGTACTCCG	8621
Sbjct	8562	AGGTACTCCGCCCCCCCCGGGGACCCCCACAACCAGAATACGACTTGAGCTTATAACA	8621
Query	8694	TCATGCTCCTCCAACGTGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8622		8681
Query	8622	TCATGCTCCTCCAACGTGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8681
Sbjct	8622	TCATGCTCCTCCAACGTGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8681
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8682		8741
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Sbjct	8682	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8741
Query	8814	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8742		8801
Query	8742	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8801
Sbjct	8742	GTCAATTCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATA	8801
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8802		8861
Query	8802	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8861
Sbjct	8802	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8861
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8862		8921
Query	8862	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAA	8921
Sbjct	8862	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACCTGGATCTACCTCCAATCATTCAA	8921
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8922		8981
Query	8922	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	8981
Sbjct	8922	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	8981
Query	9054	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCC	9113
Sbjct	8982		9041
Query	8982	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCC	9041
Sbjct	8982	GTGGCCGCATGCCTCAGAAAACCTTGGGGTCCCGCCCTTGCGAGCTTGAGACACCGGGCC	9041
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9042		9101
Query	9042	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9101
Sbjct	9042	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9101
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Sbjct	9342		9401
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Query	9474		9533
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Sbjct  9462  CTGTGAAAGGTCCGTGAGCCGCTTGAAGTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGA  9521
Query  9594  TCA  9596
          |||
Sbjct  9522  TCA  9524
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